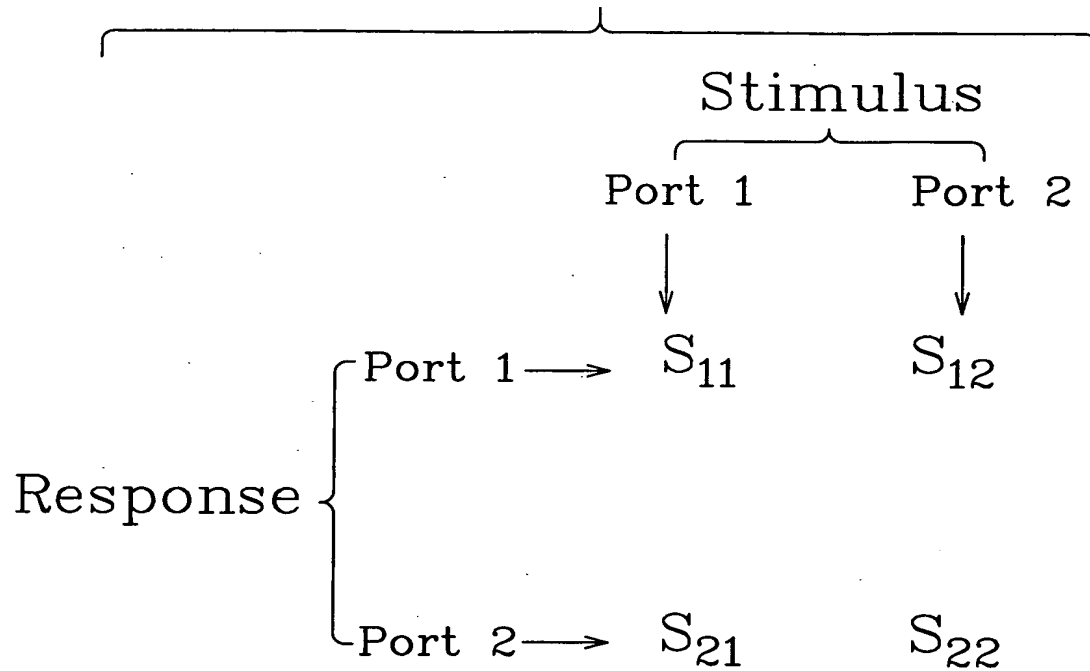




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THE SINGLE-ENDED S-MATRIX



Syz

z=stimulus port
y=stimulus port

FIG 1(a)

(Related Art)



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THE MIXED-MODE S-MATRIX

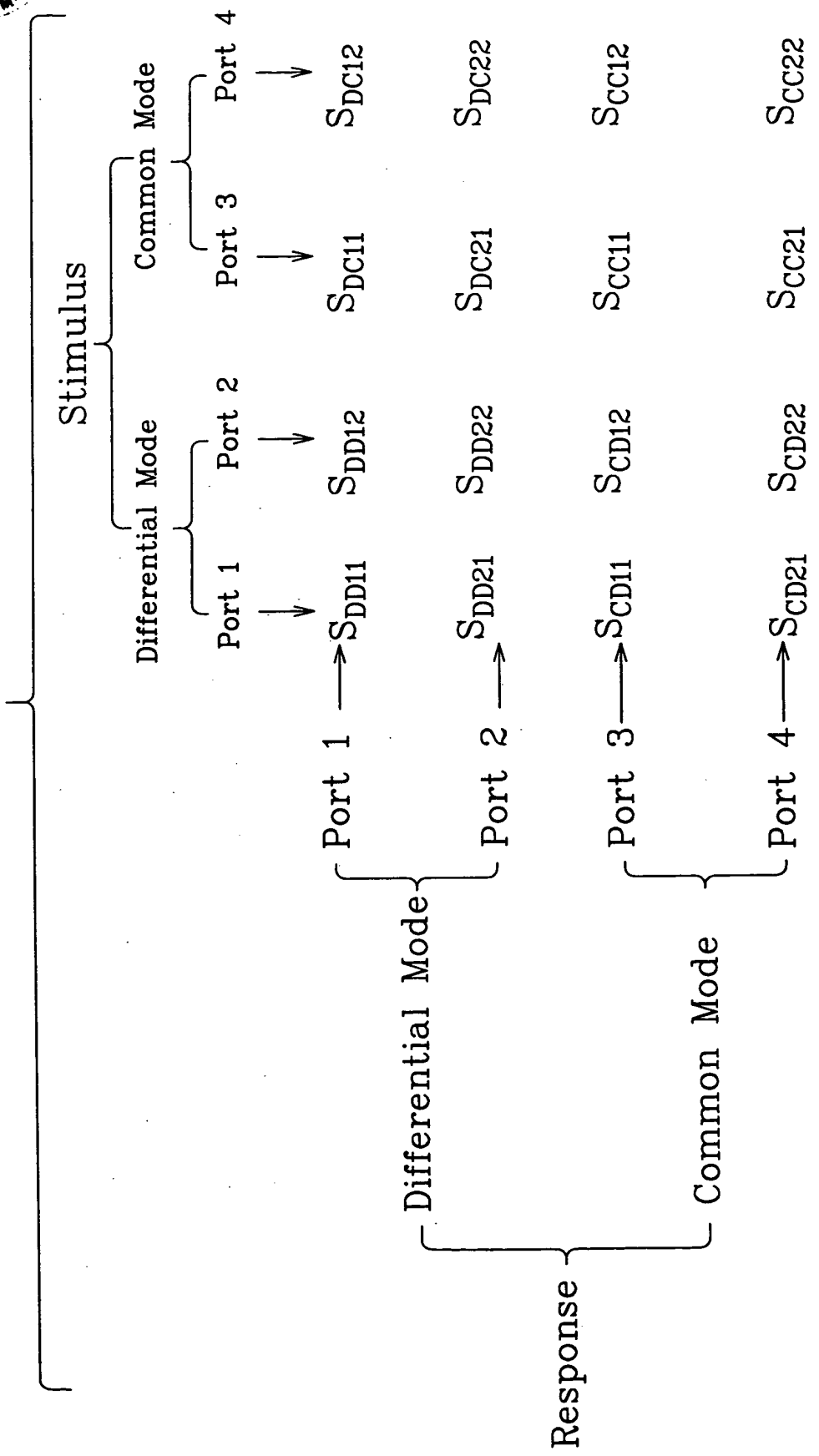


FIG. 1(b)
(Related Art)

Swxyz
w=response mode z=stimulus port
x=stimulus mode y=response port



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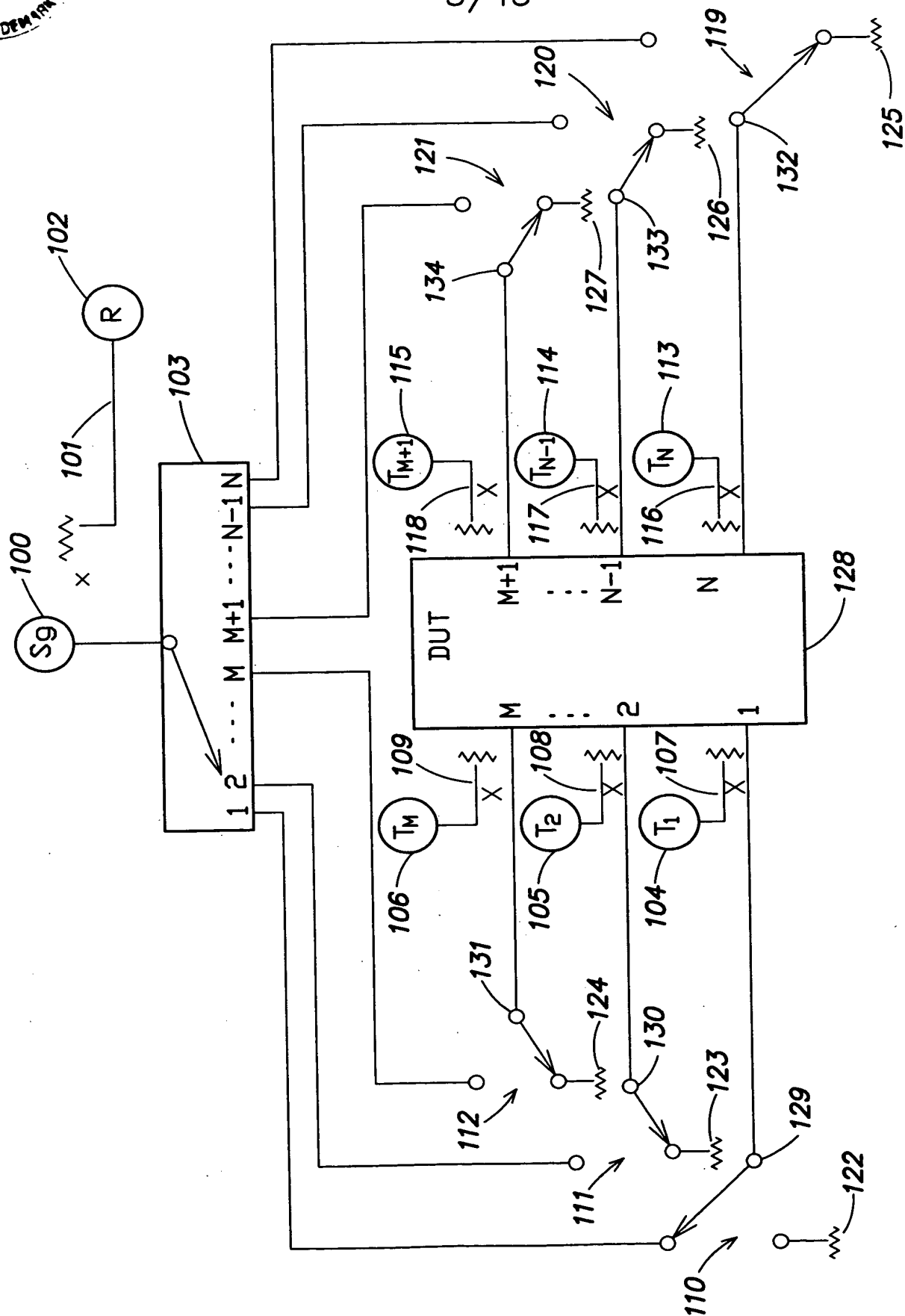


FIG. 2

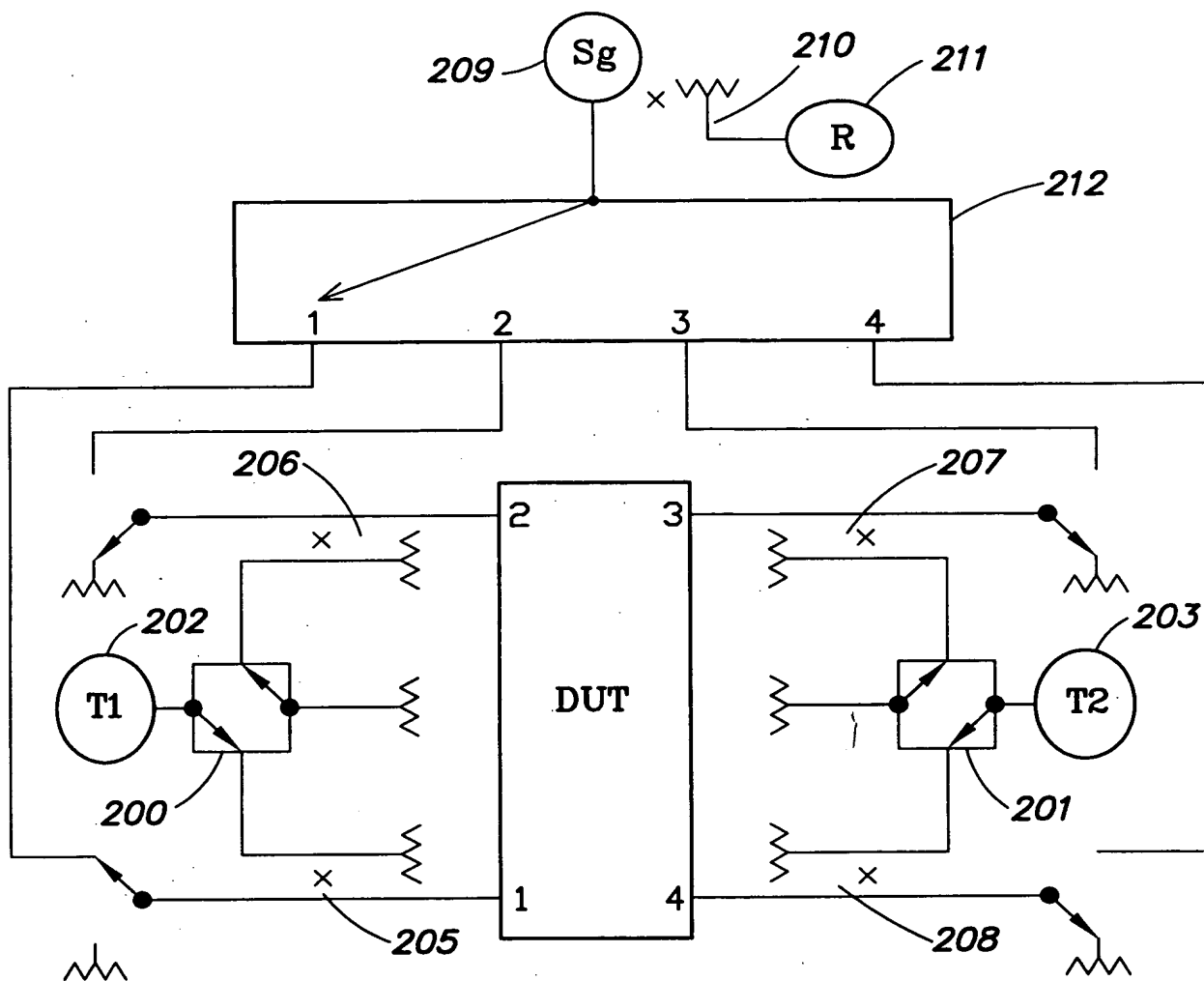


FIG. 3



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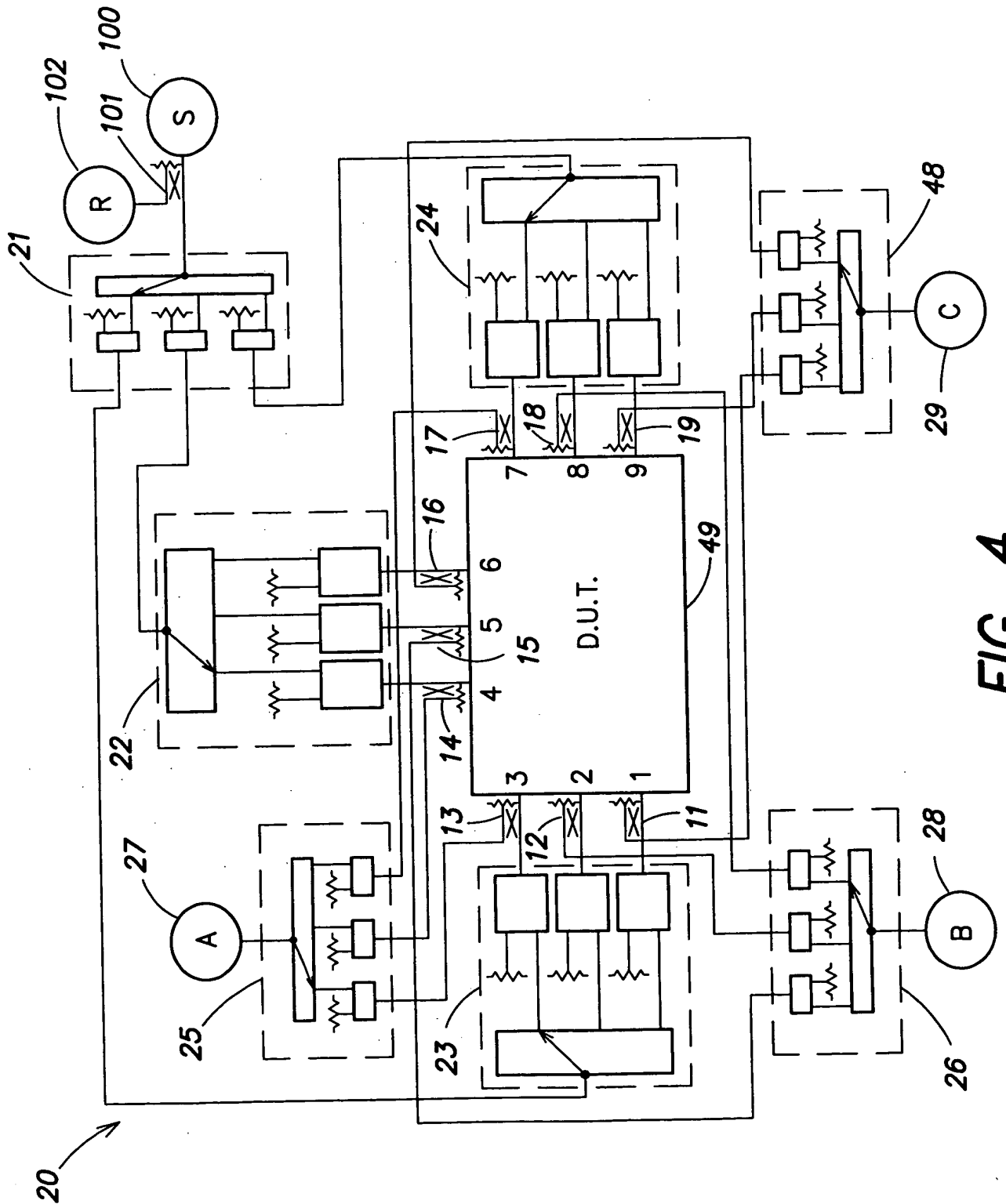


FIG. 4





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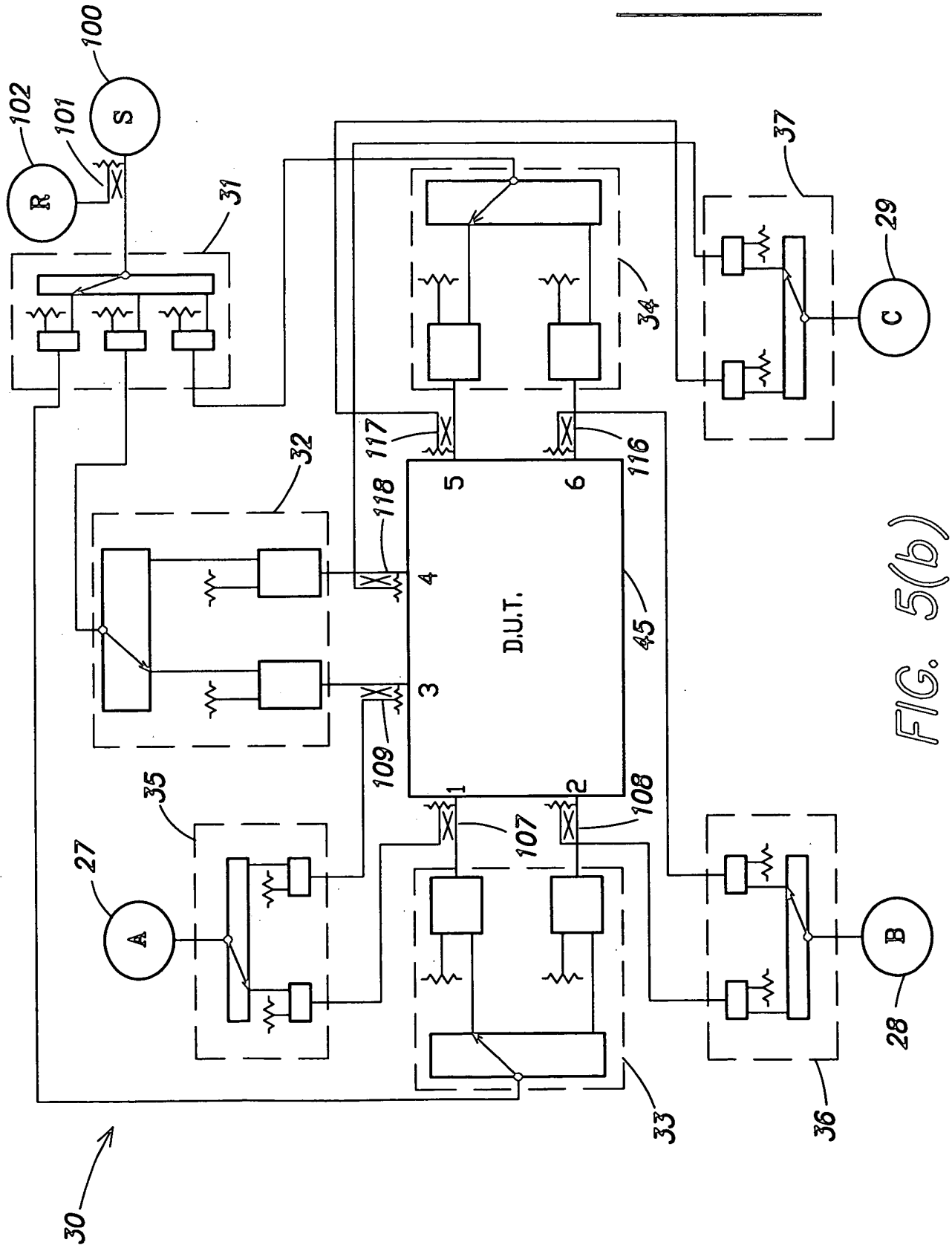


FIG. 5(b)



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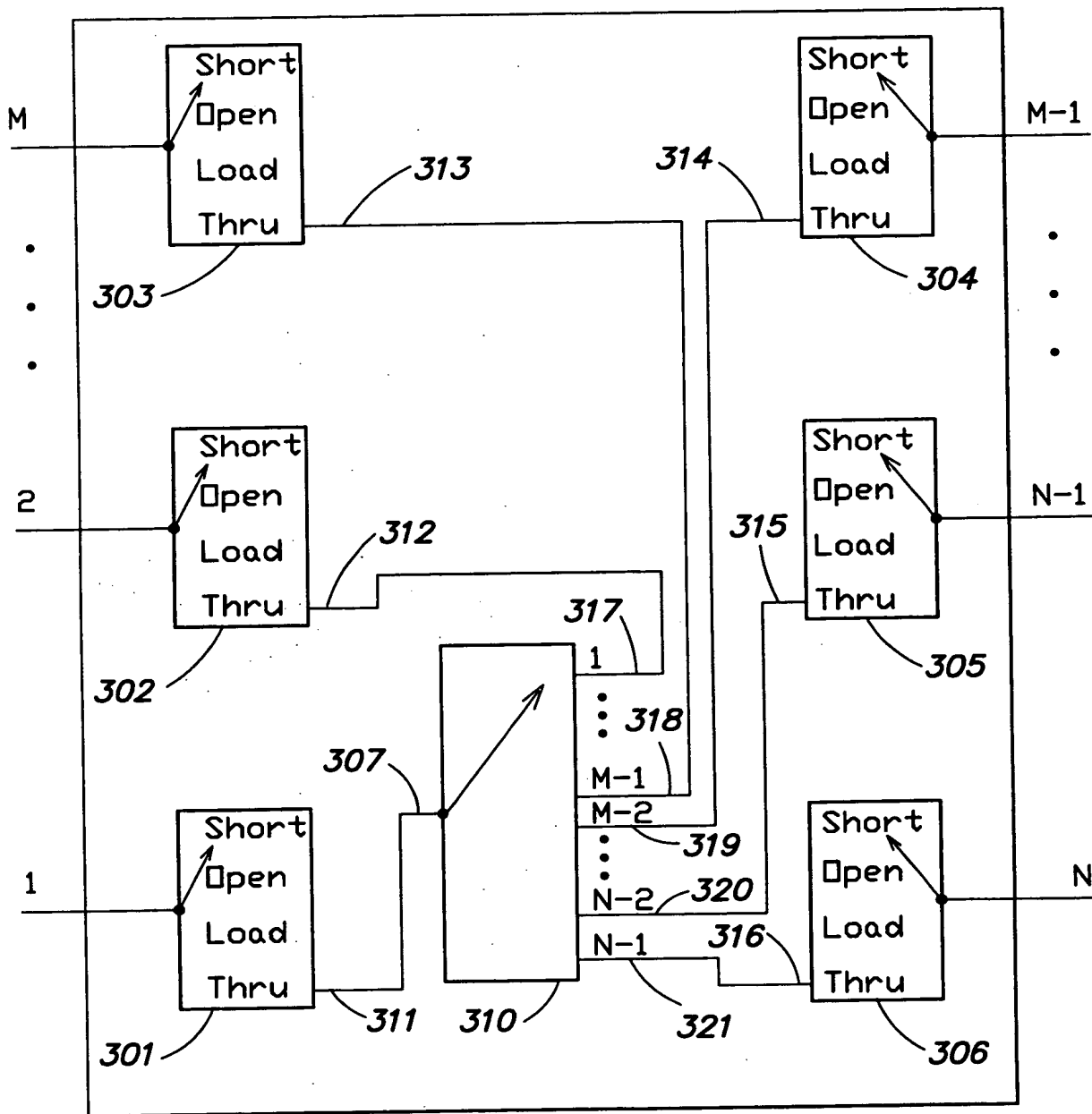


FIG 6
(RELATED ART)

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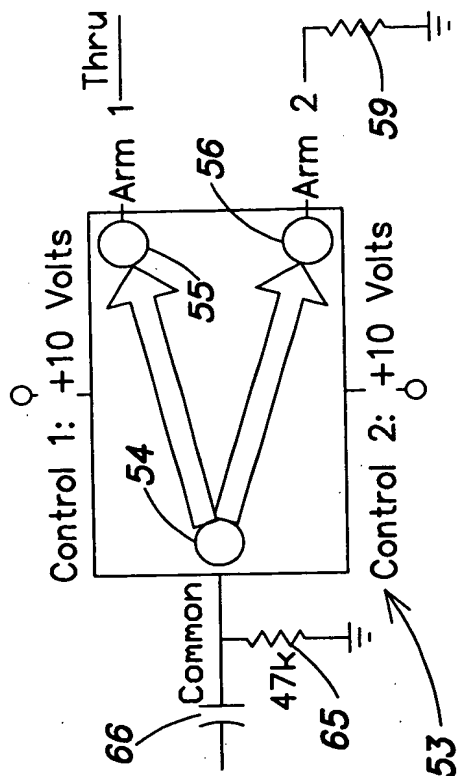


FIG. 8(c)

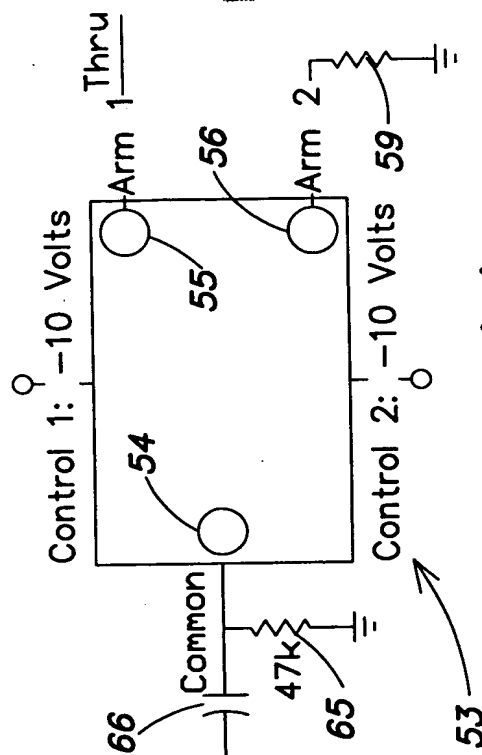


FIG. 8(d)

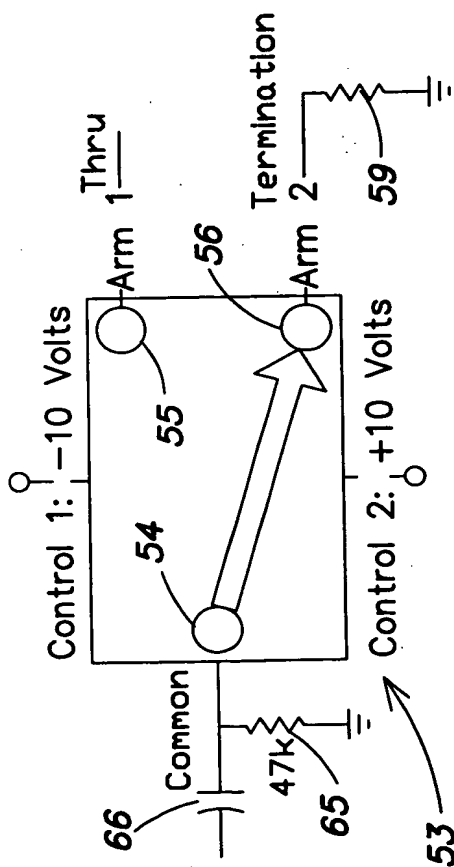


FIG. 8(a)

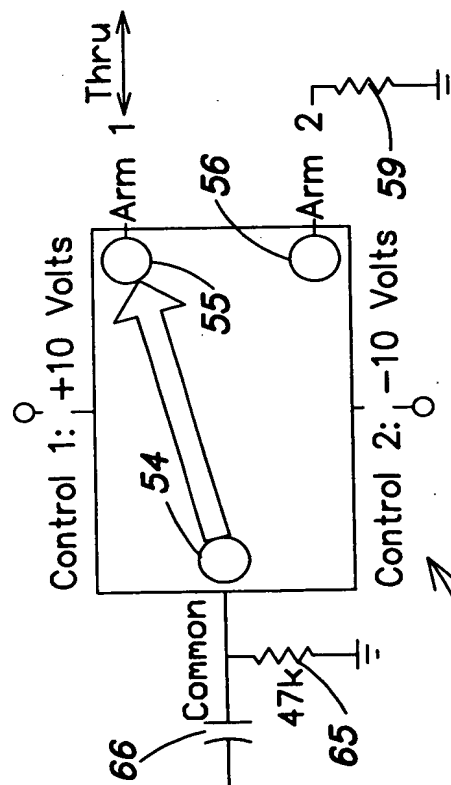


FIG. 8(b)



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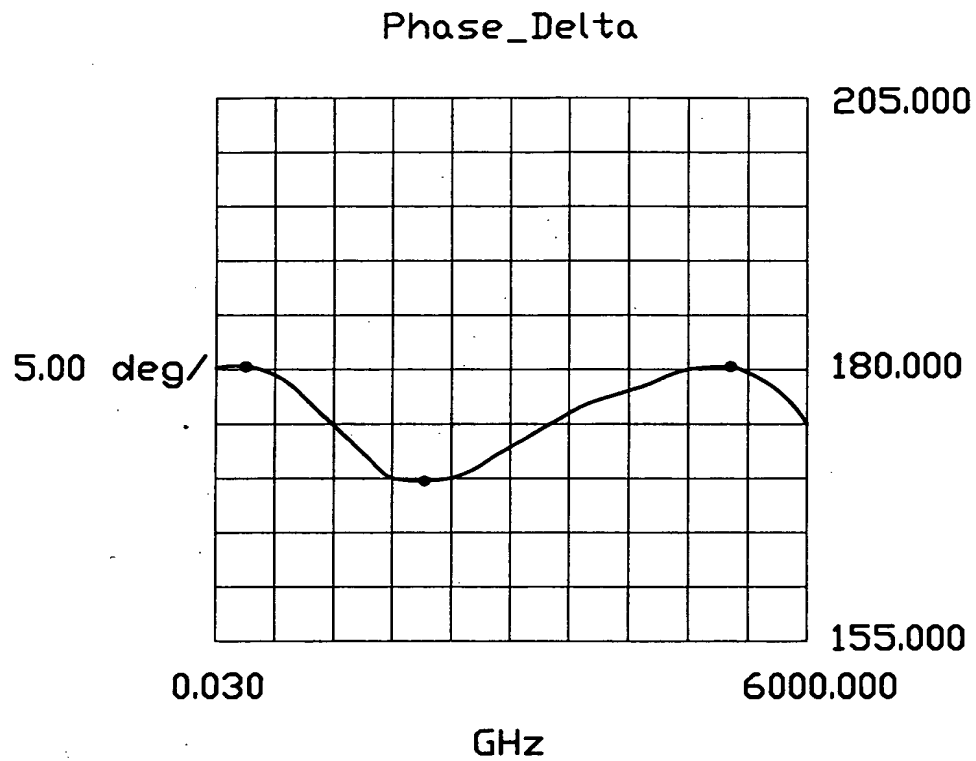


FIG. 9



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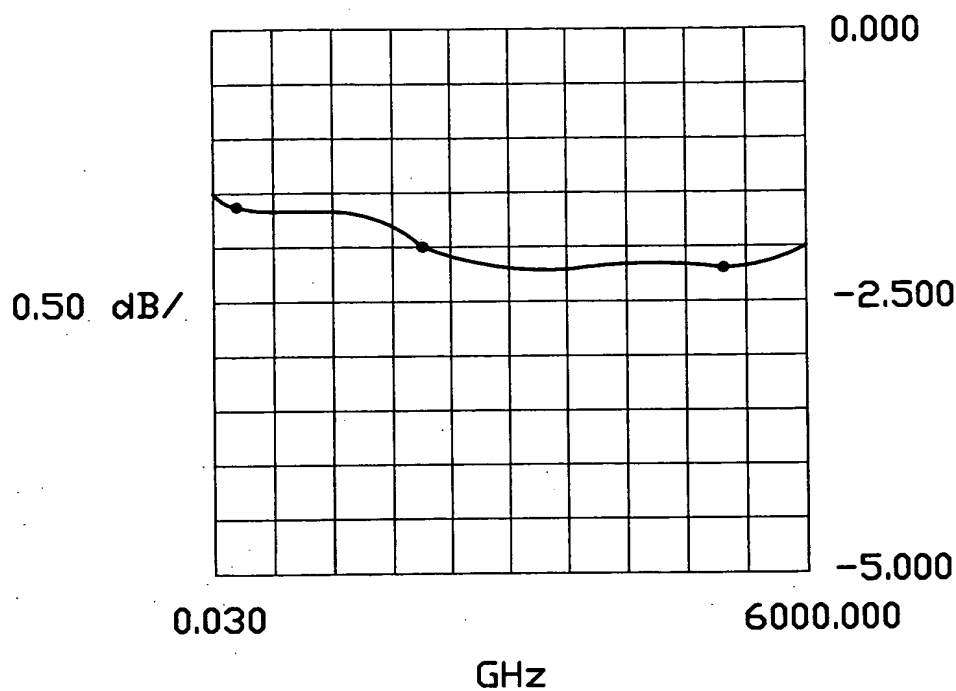


FIG. 10



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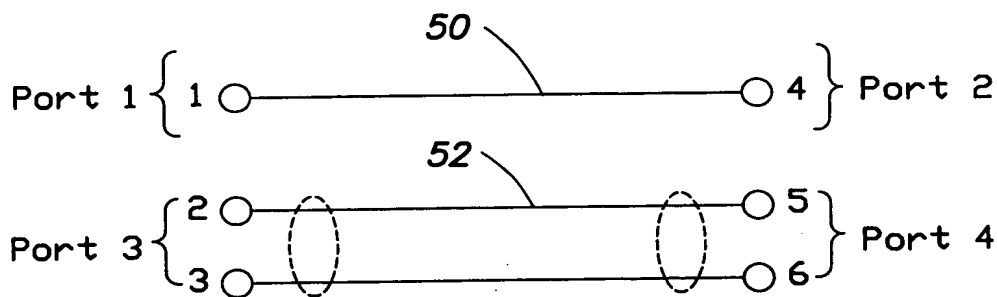


FIG. 11

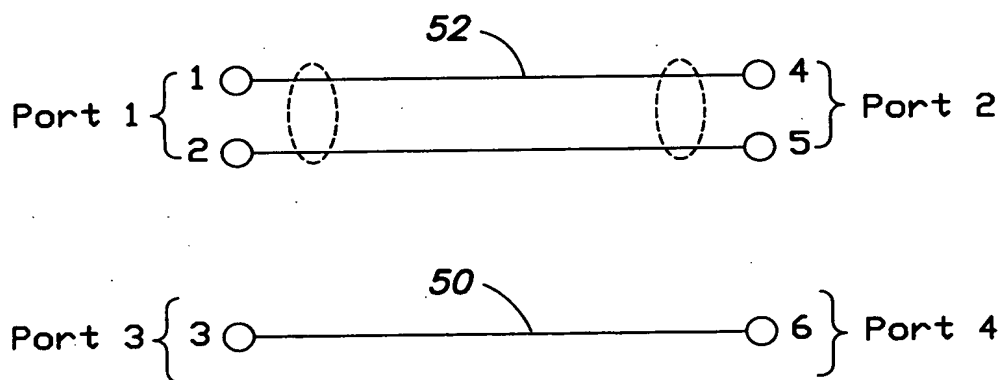


FIG. 12



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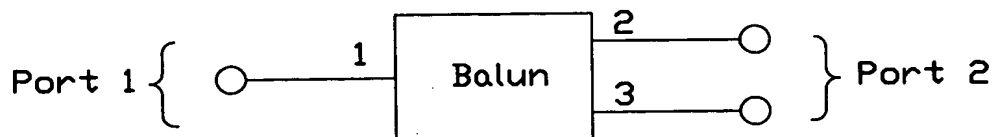


FIG. 13

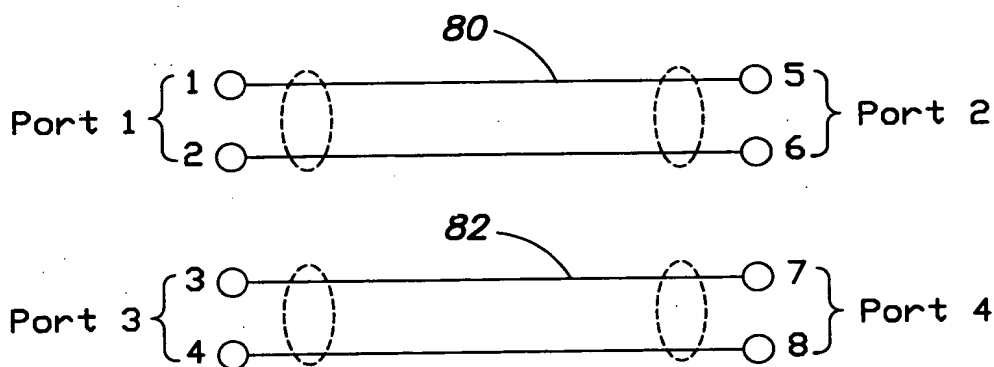


FIG. 14



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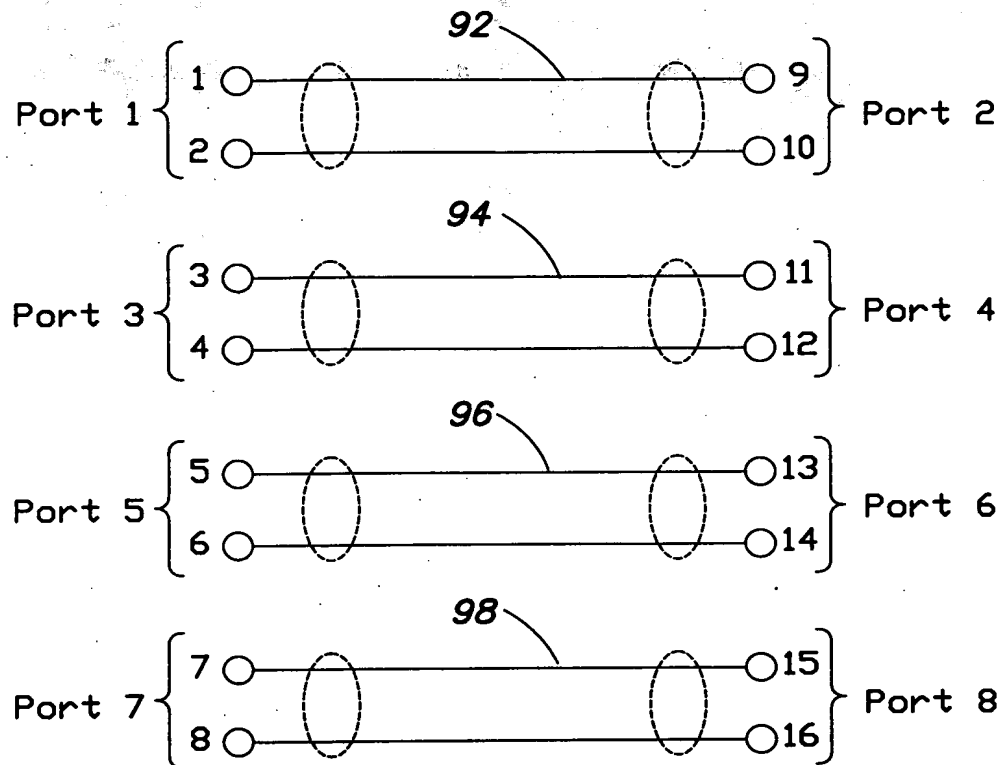


FIG. 15



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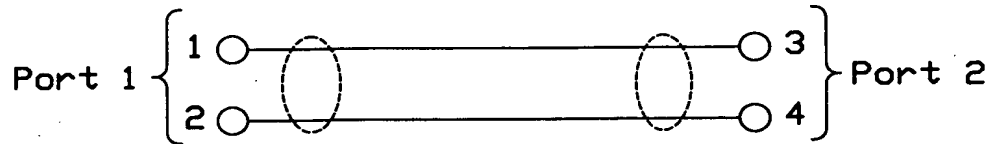


FIG. 16

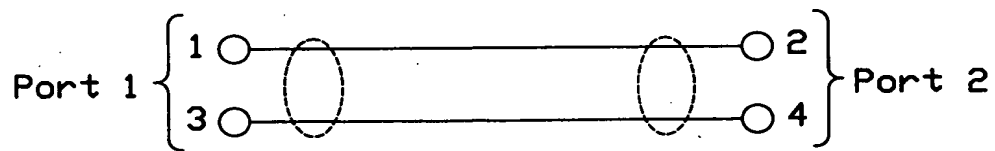


FIG. 17



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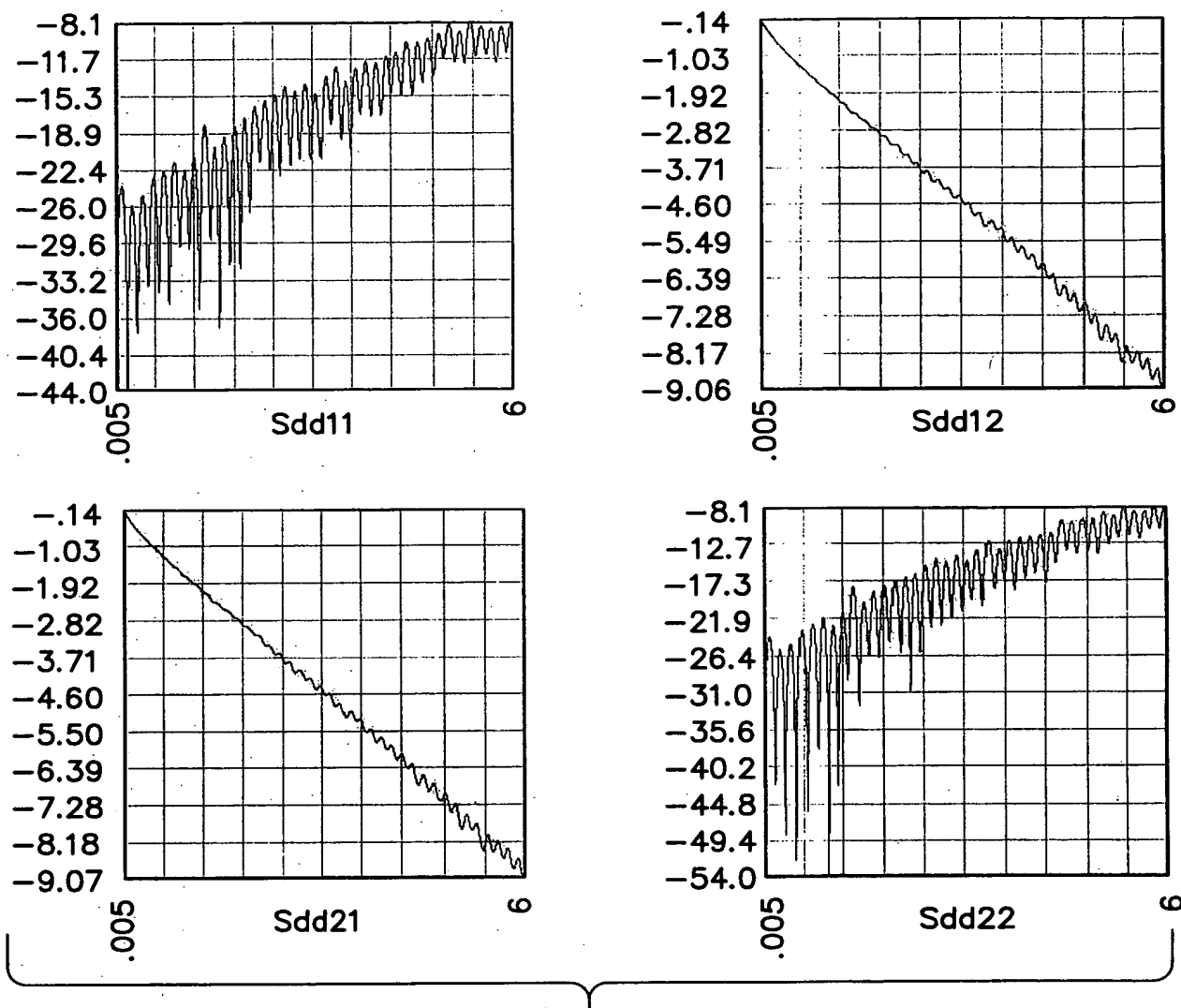


FIG. 18A



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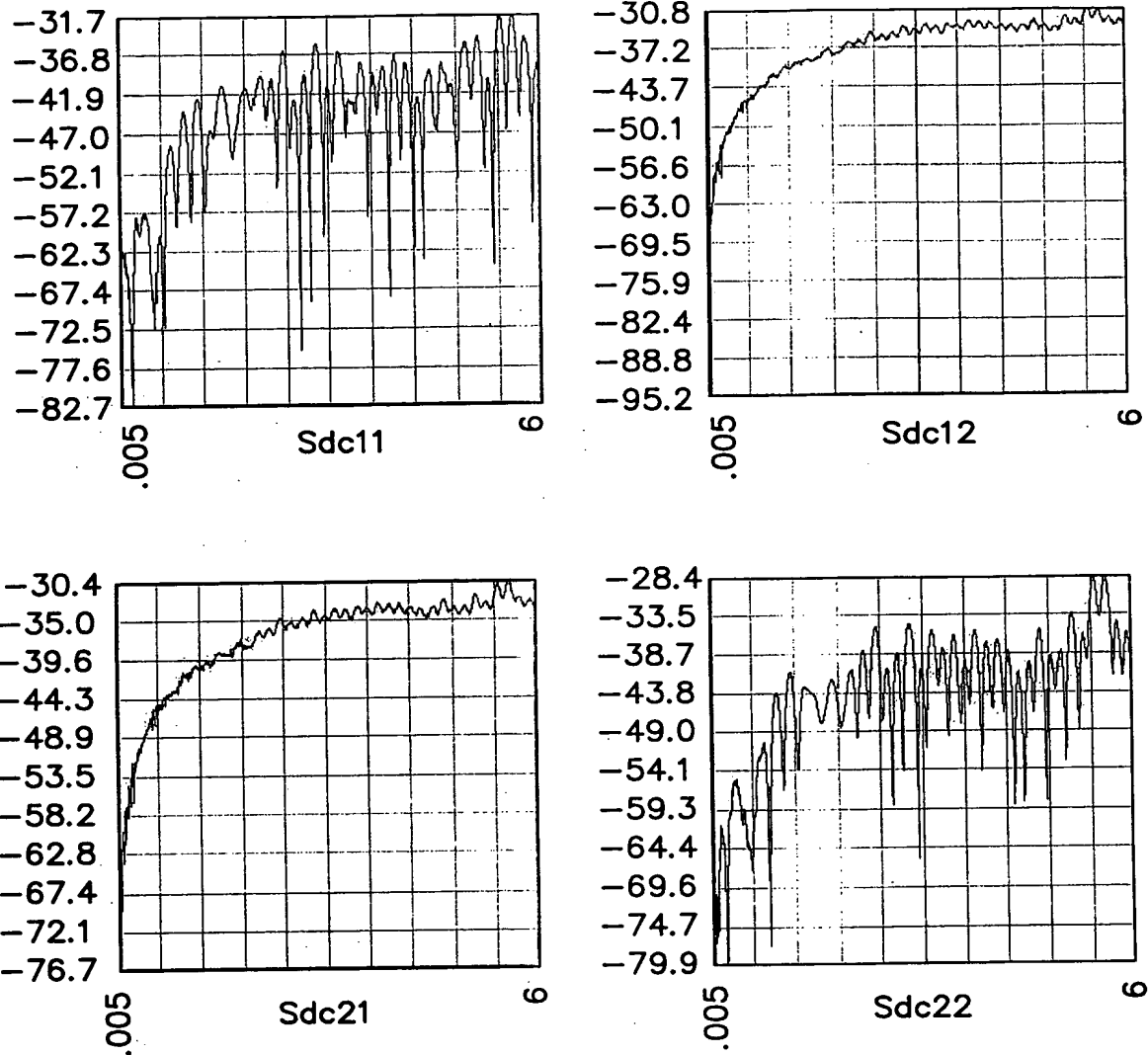


FIG. 18B



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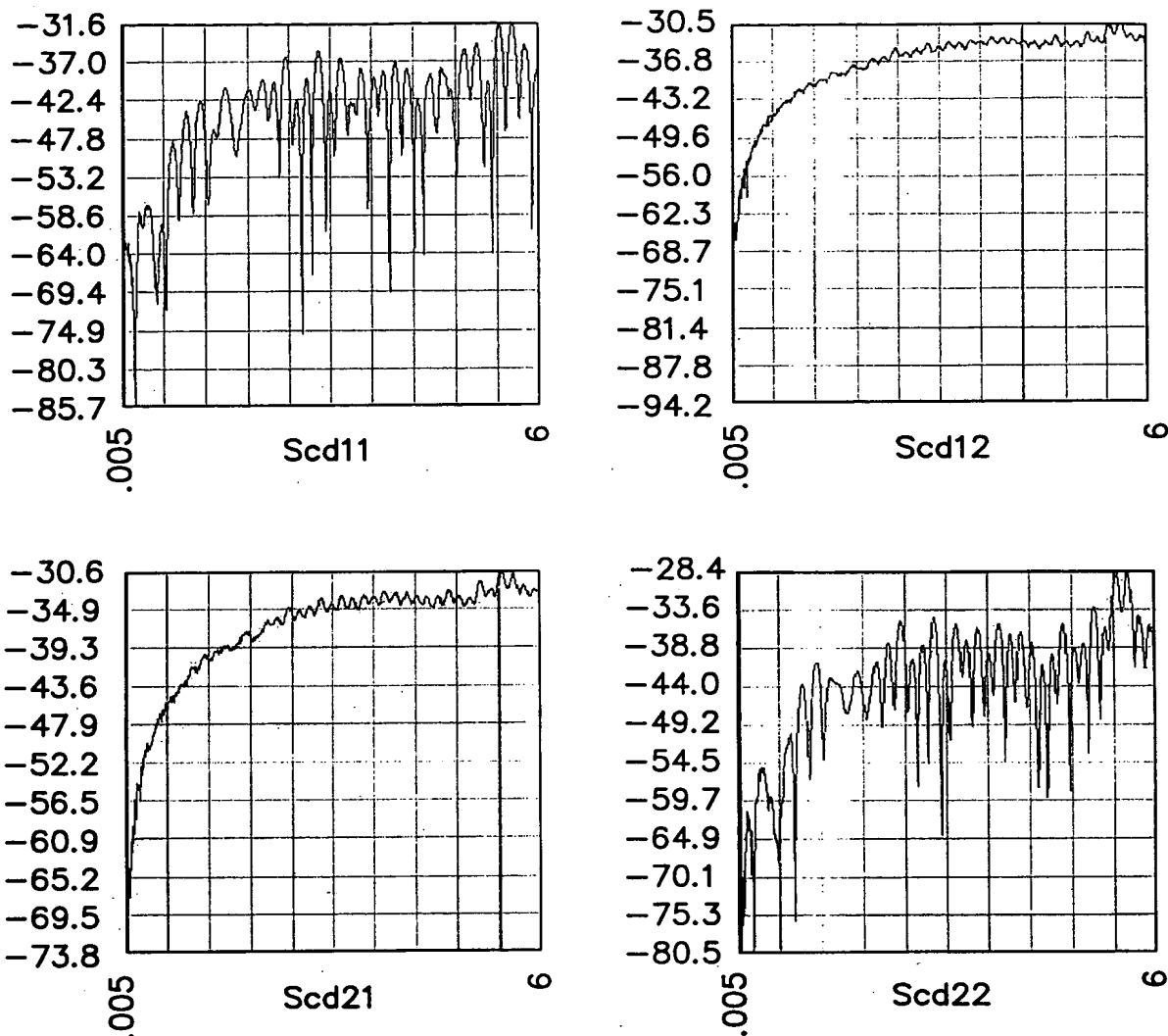


FIG. 18C



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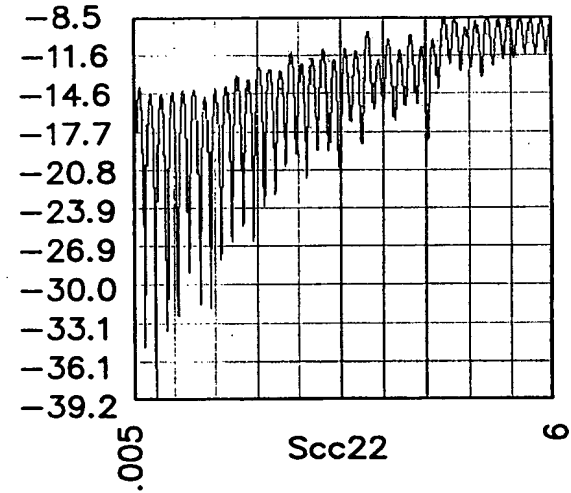
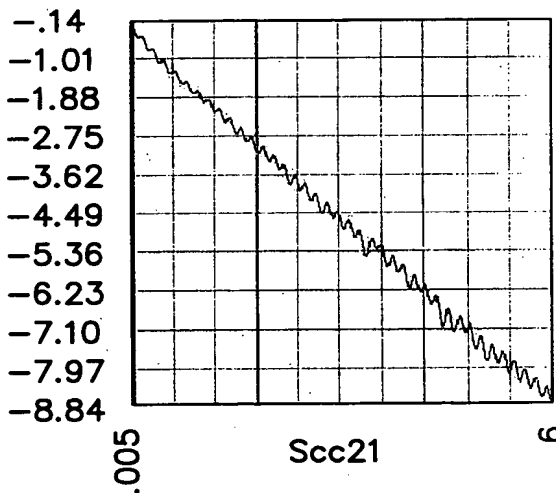
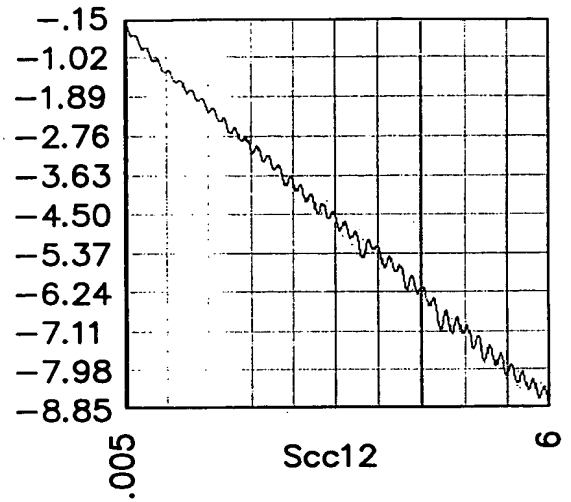
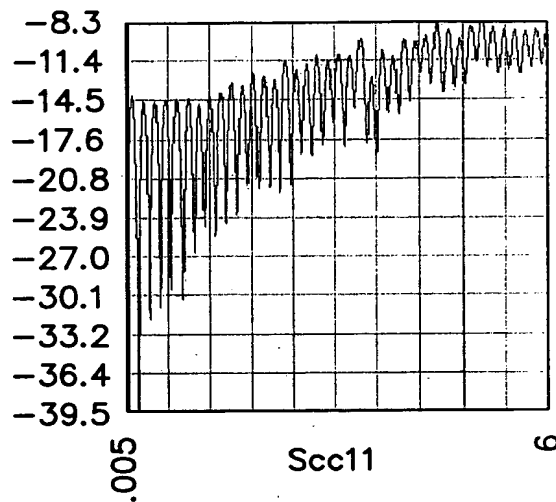


FIG. 18D



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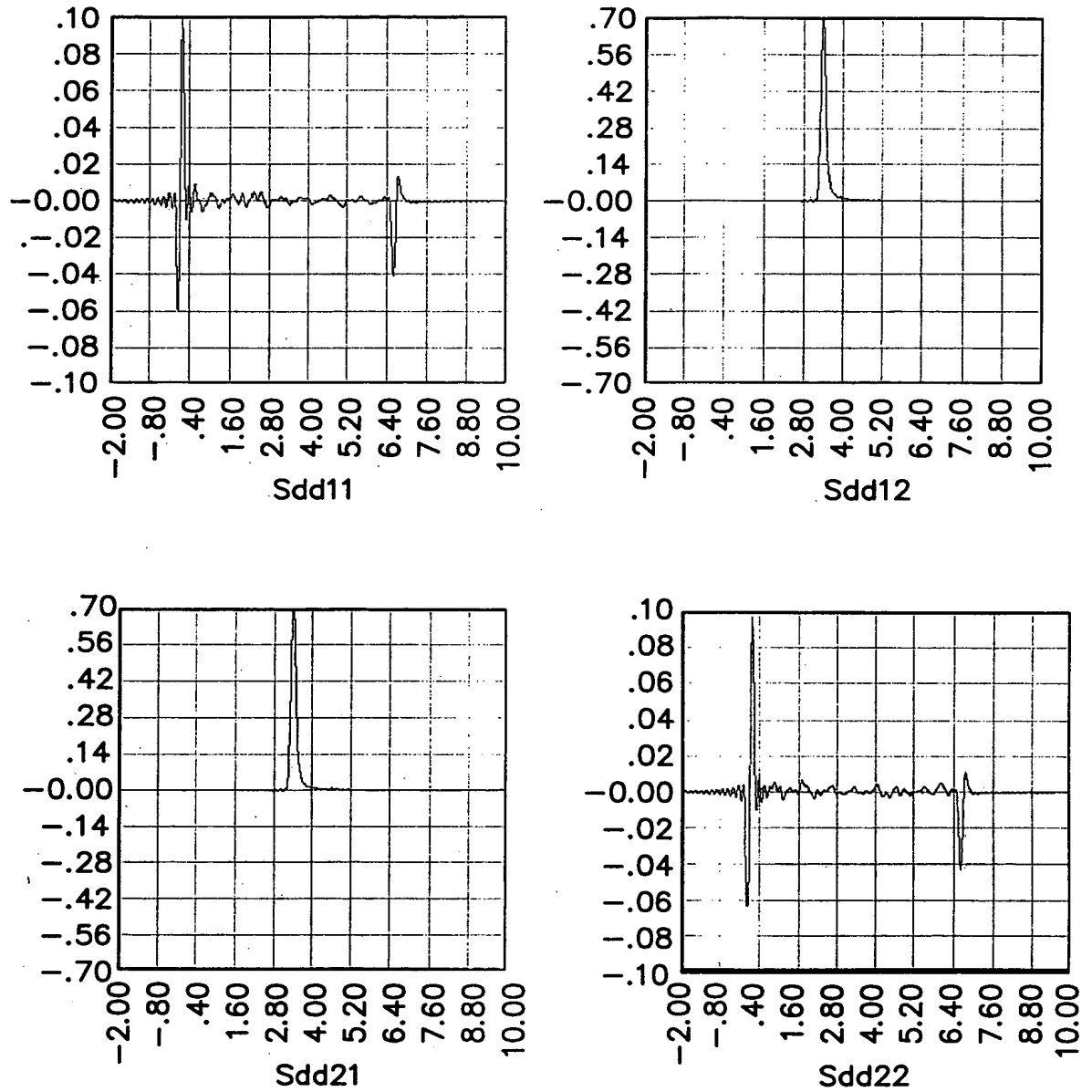


FIG. 19A



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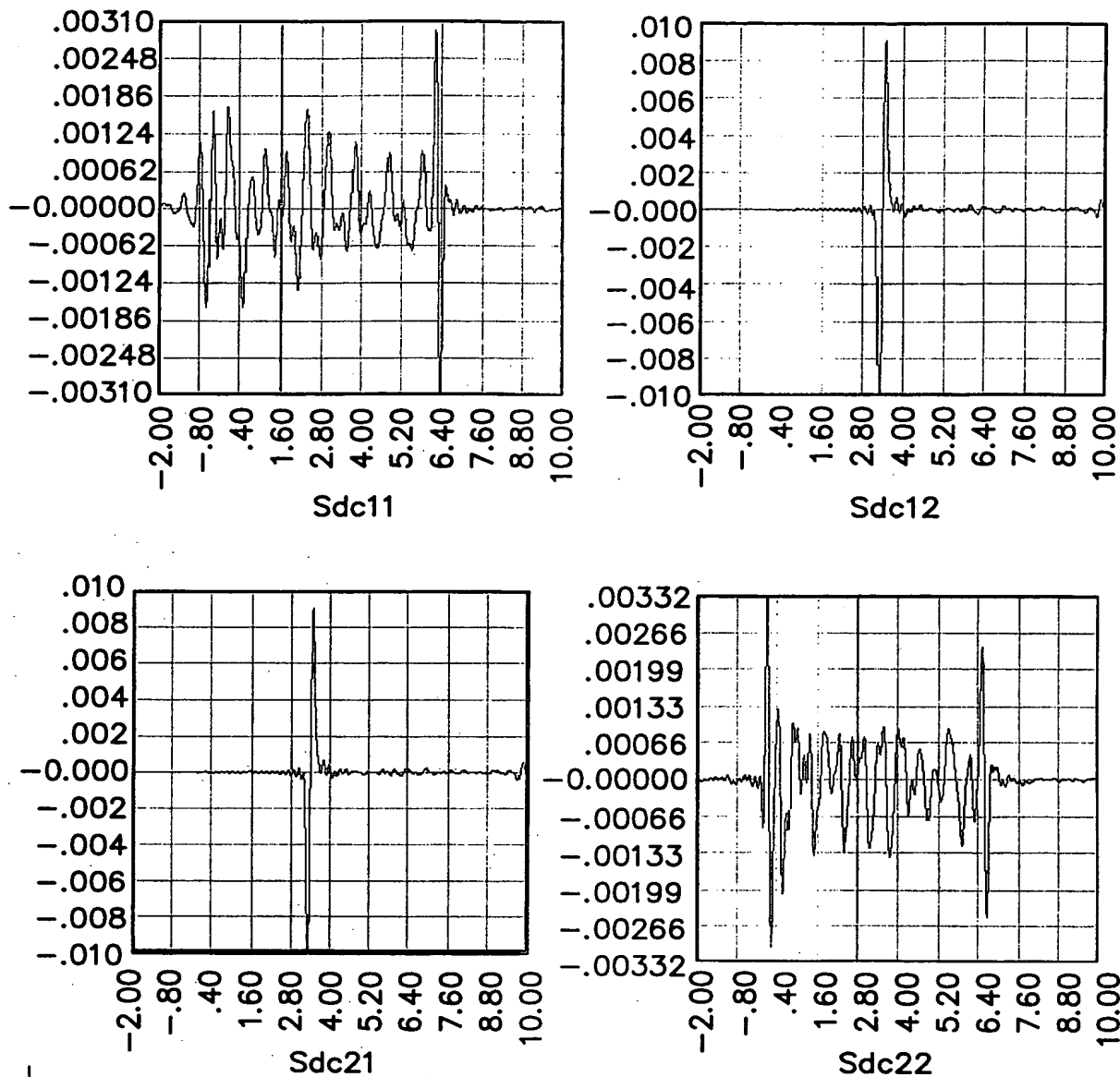


FIG. 19B



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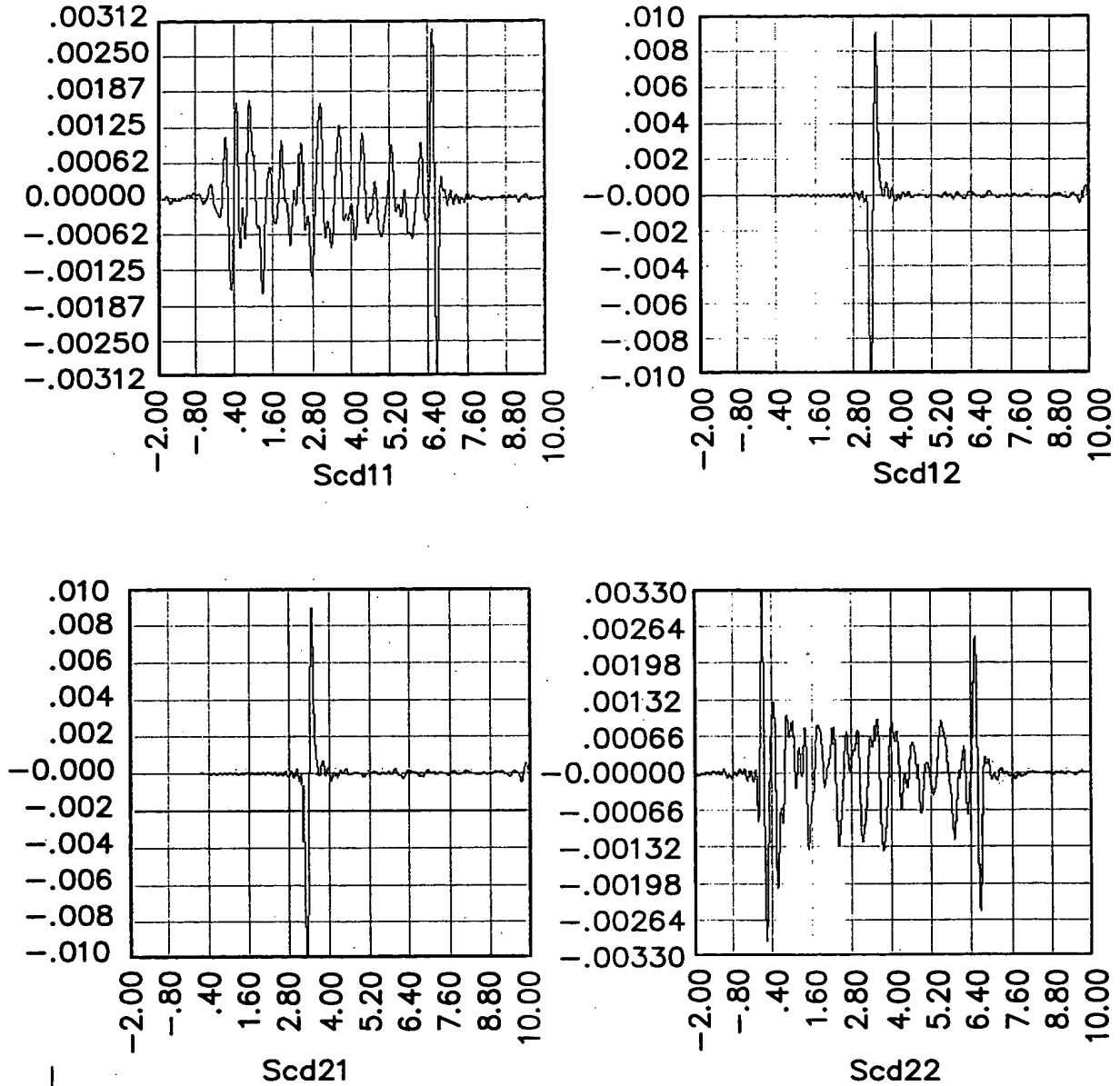


FIG. 19C



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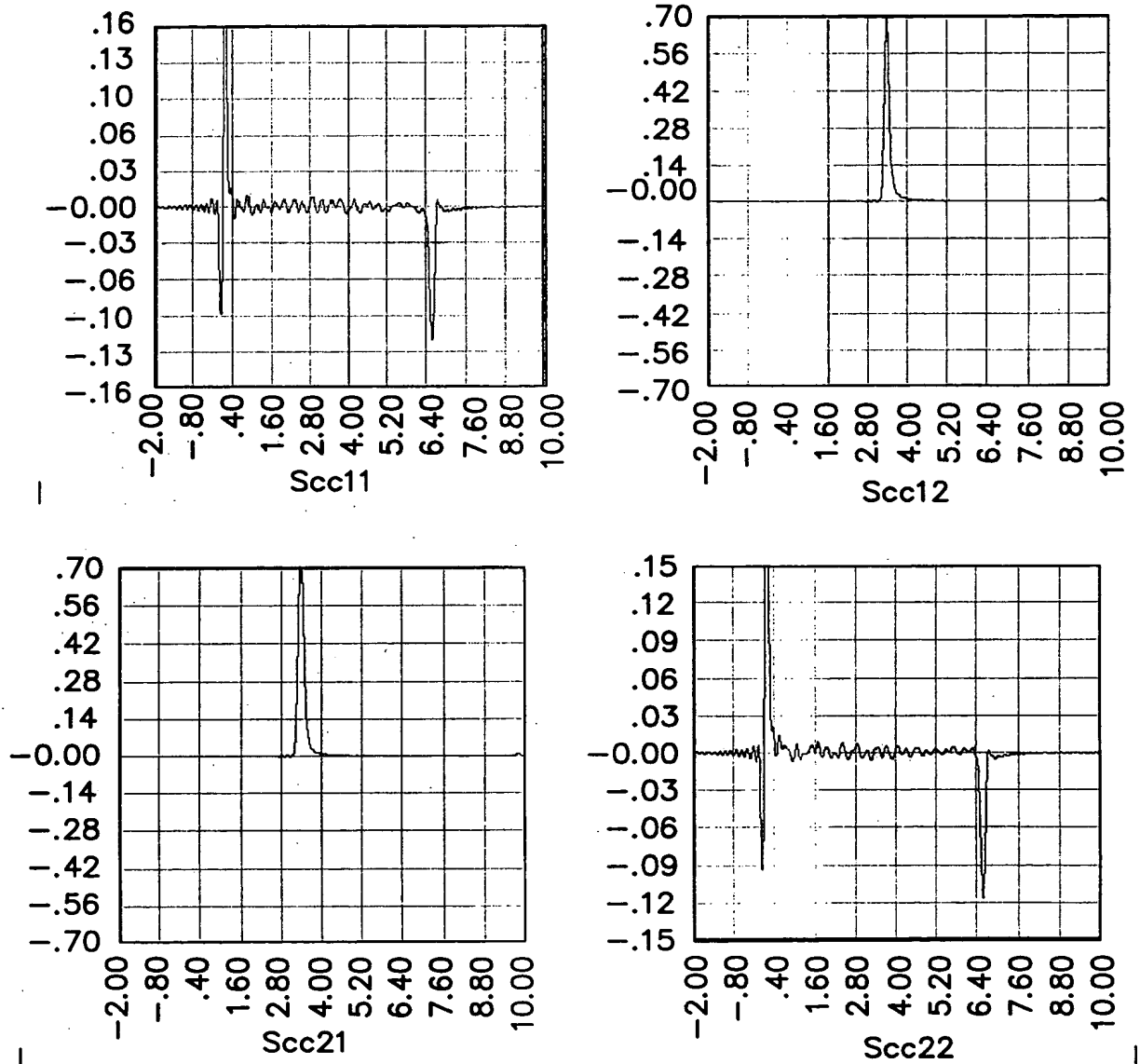


FIG. 19D



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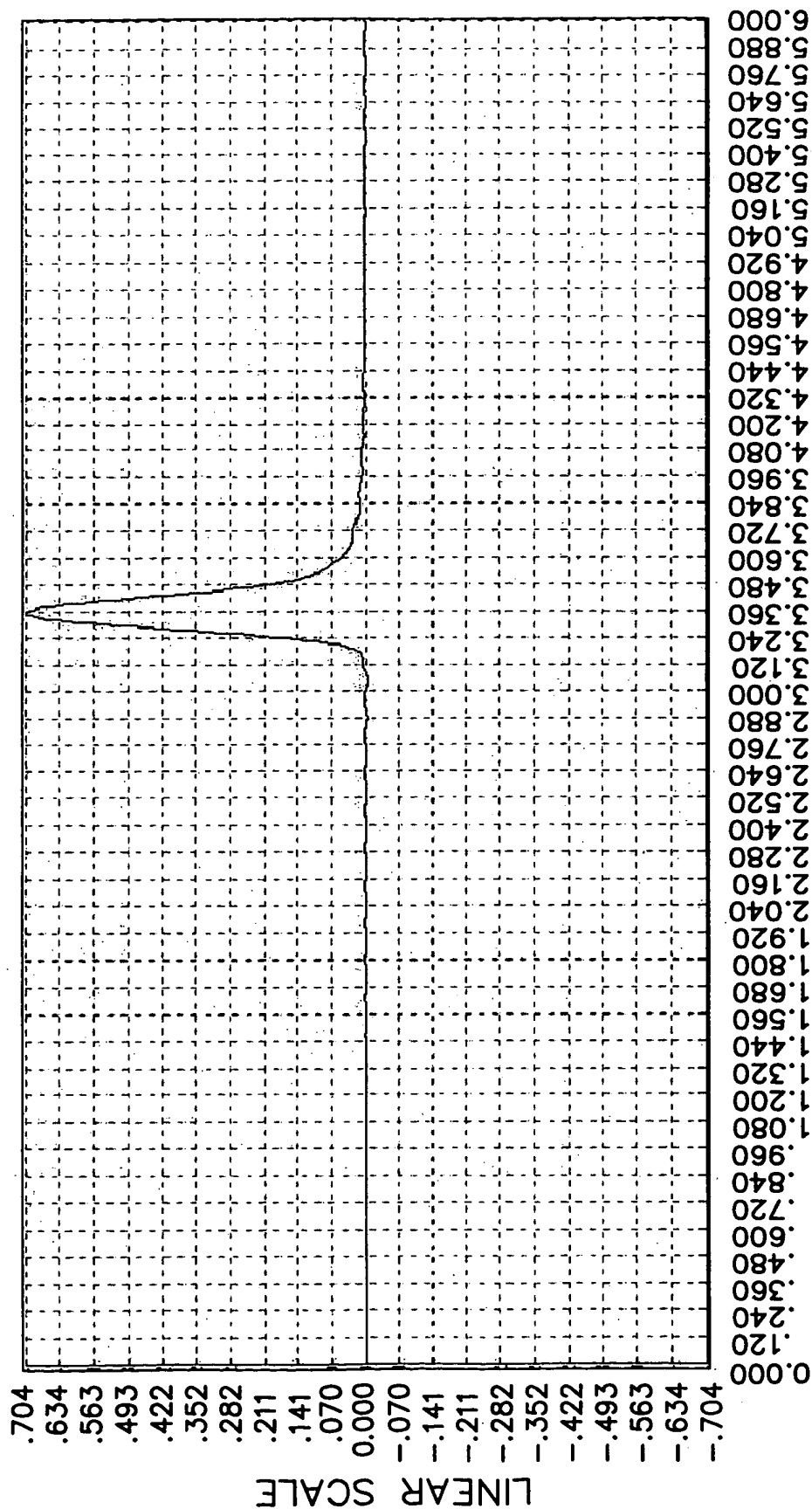
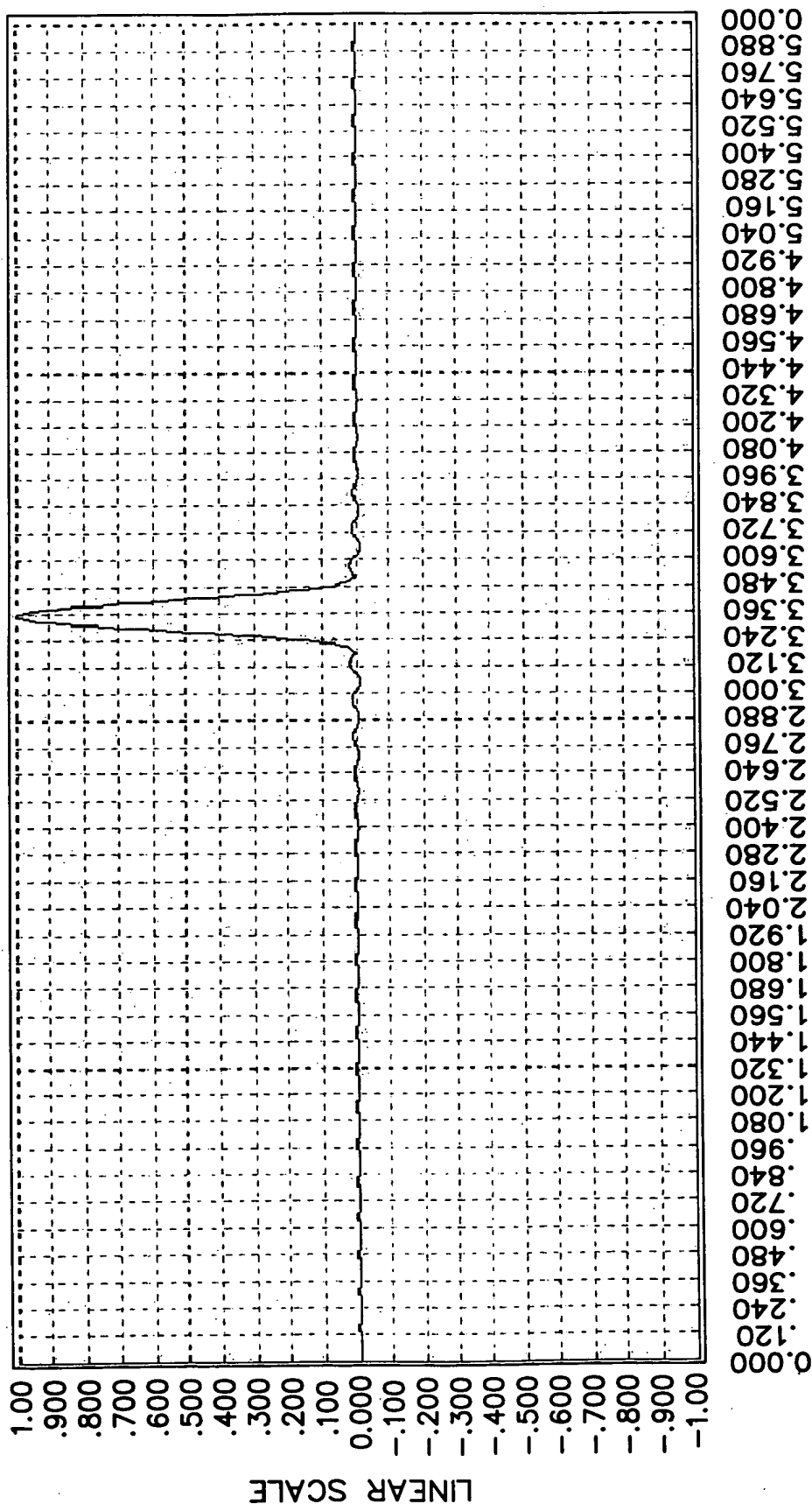


FIG 20



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Sdd21 Z01=100 & Z02=100 Impulse Response vs Time in Nsec. Resolution is .005 Nsec

FIG 21



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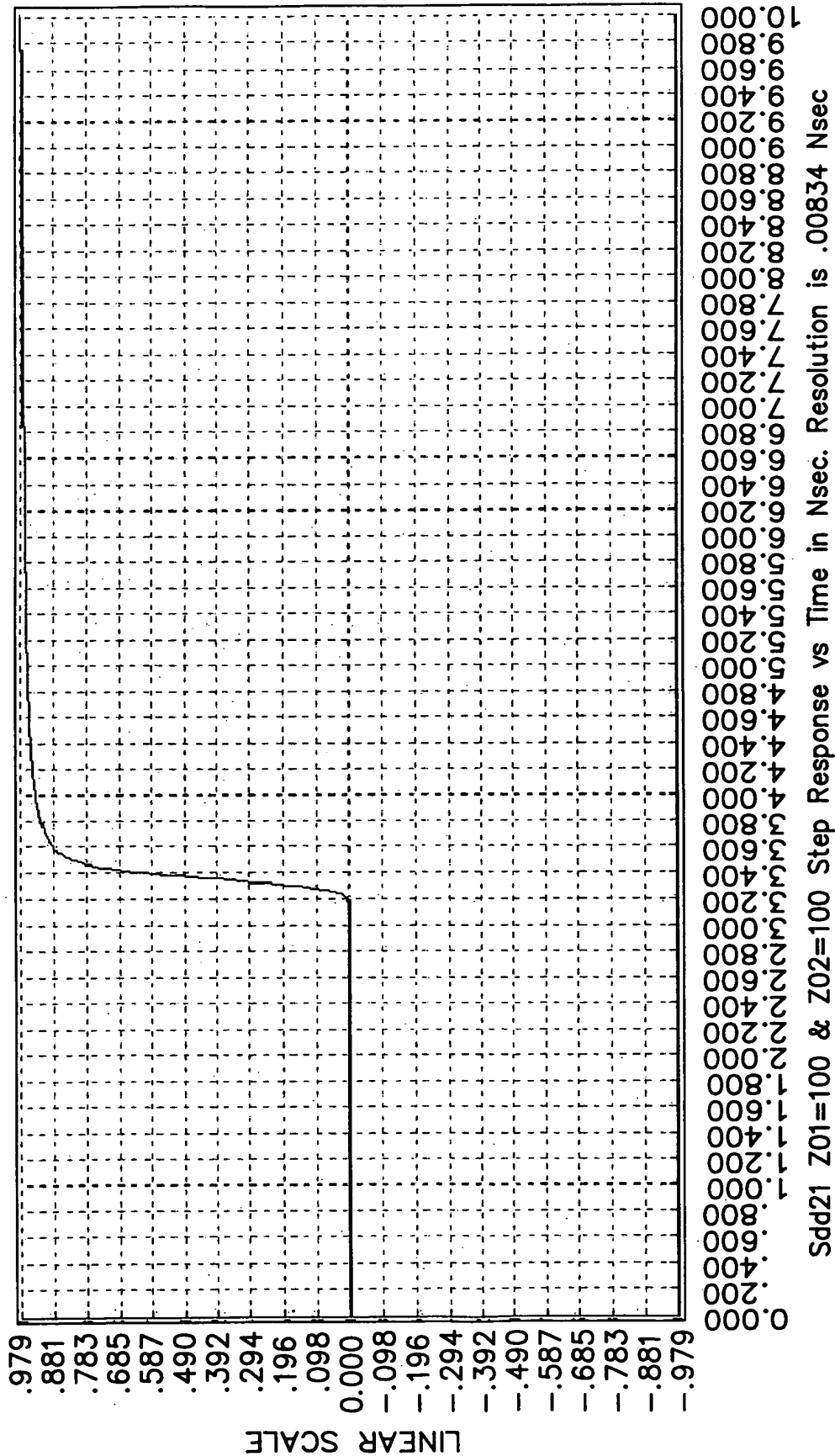
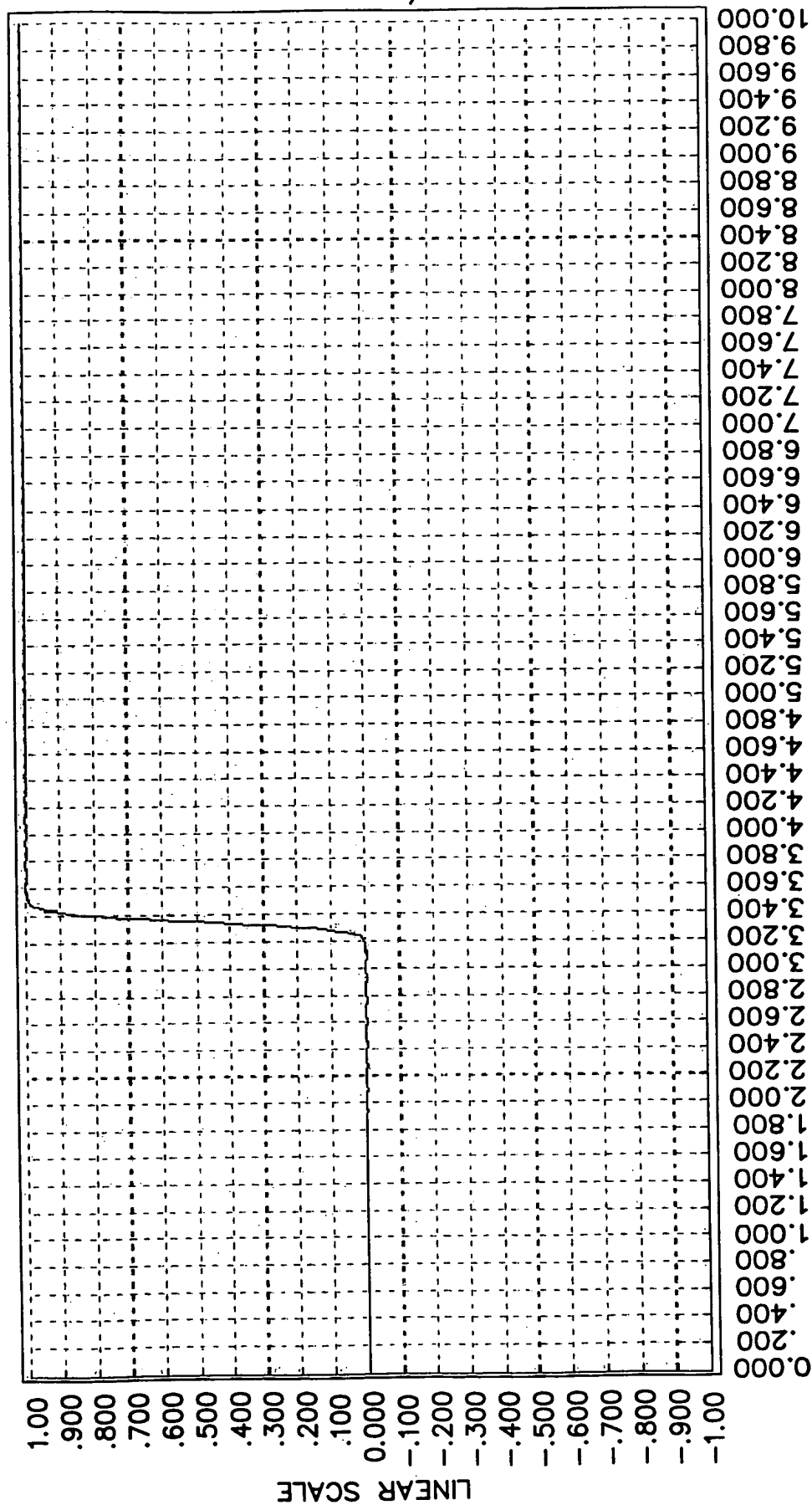


FIG 22



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Sdd21 Z01=100 & Z02=100 Step Response vs Time in Nsec. Resolution is .00834 Nsec

FIG 23

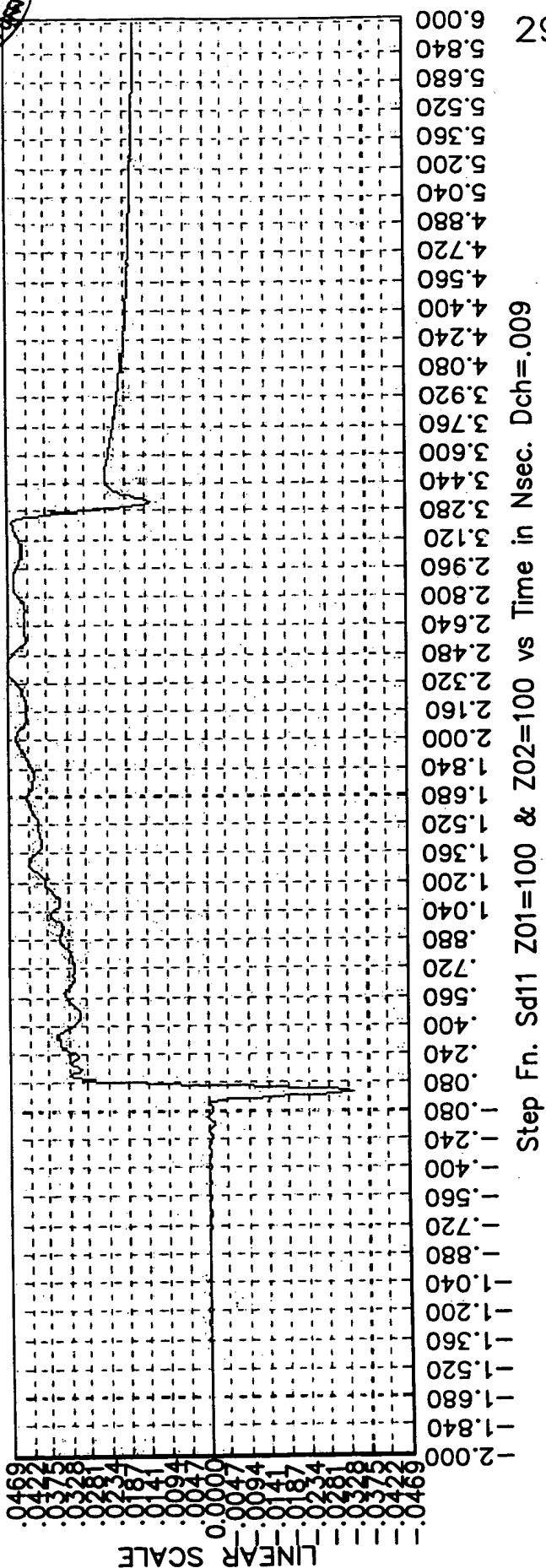
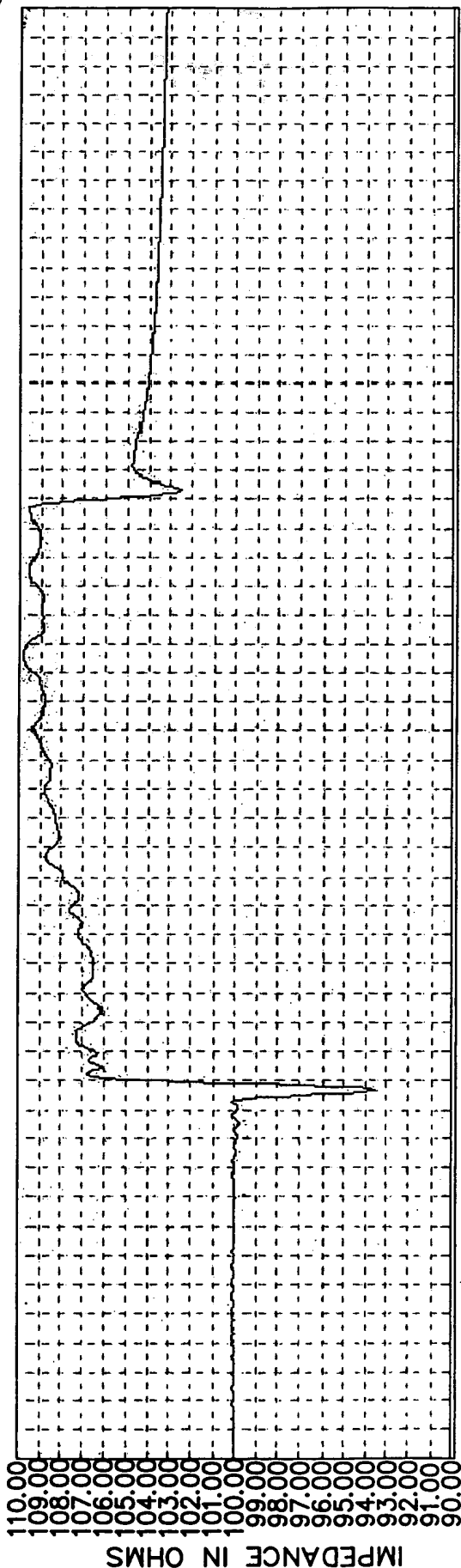


FIG. 24(a)



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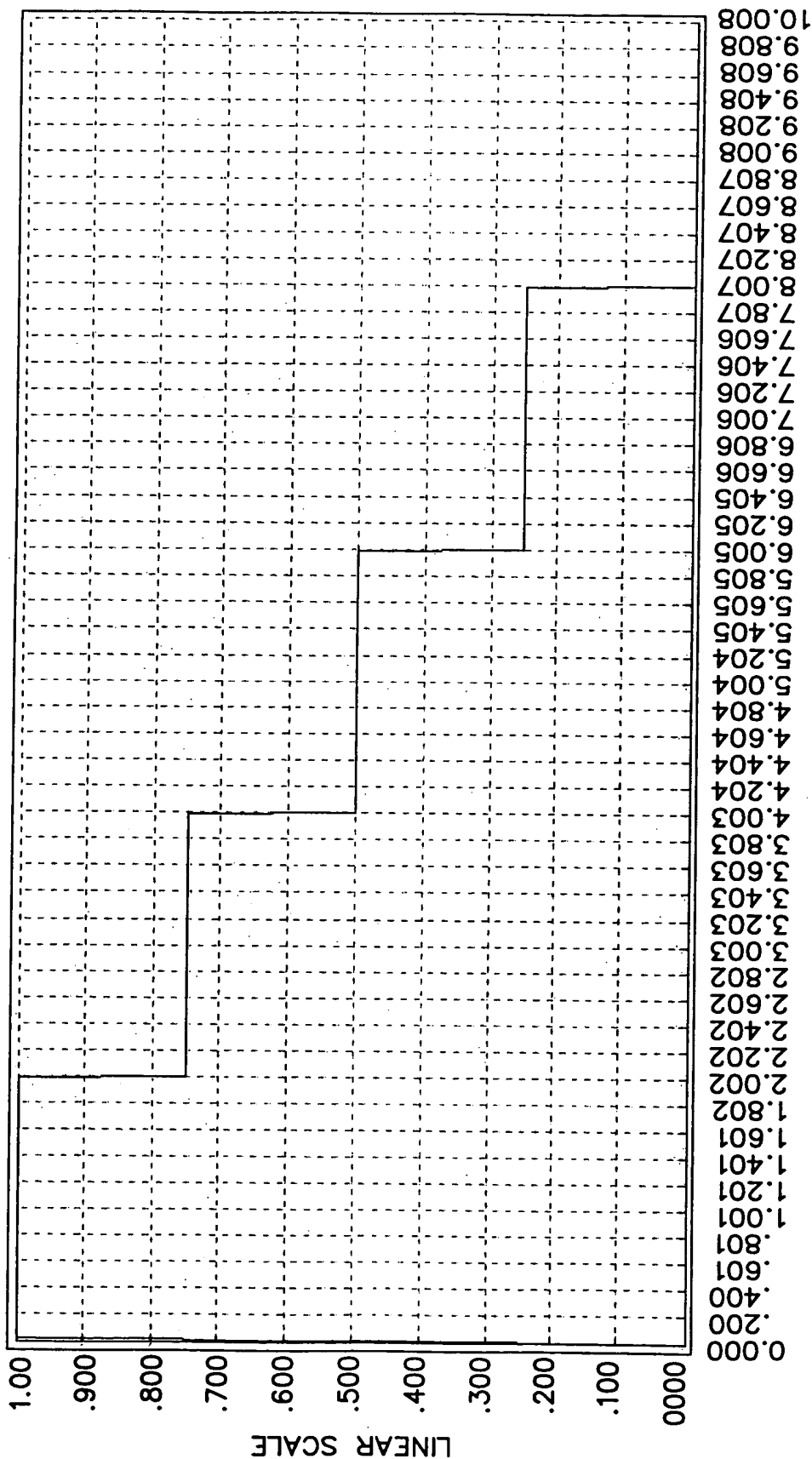


TIME IN .16 Nsec/DIV

FIG. 24(b)



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Forcing Fn is Stair-step(GD) vs Time in Nsec. Resolution is 12.51 Psec

FIG. 25



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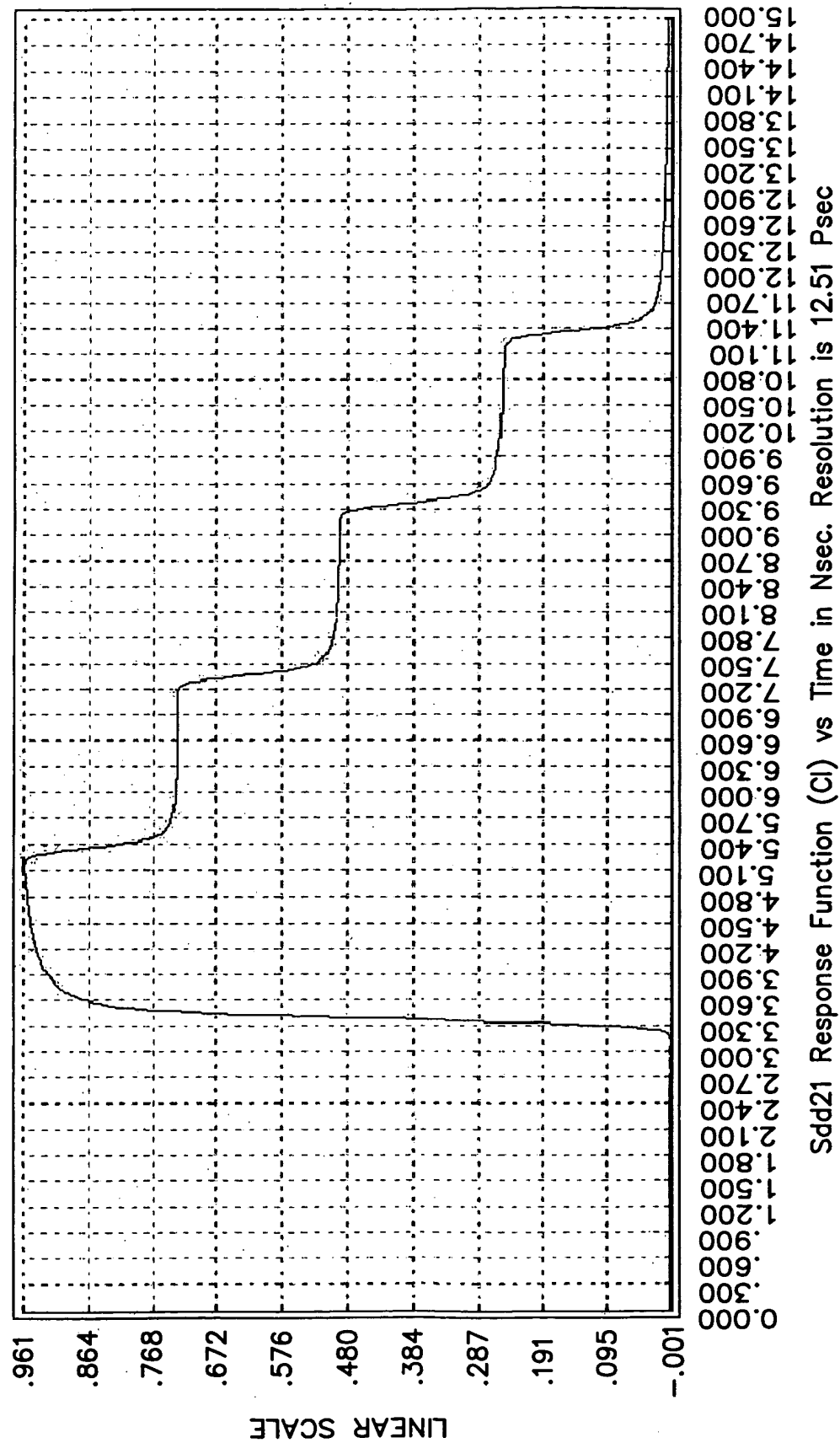


FIG. 26

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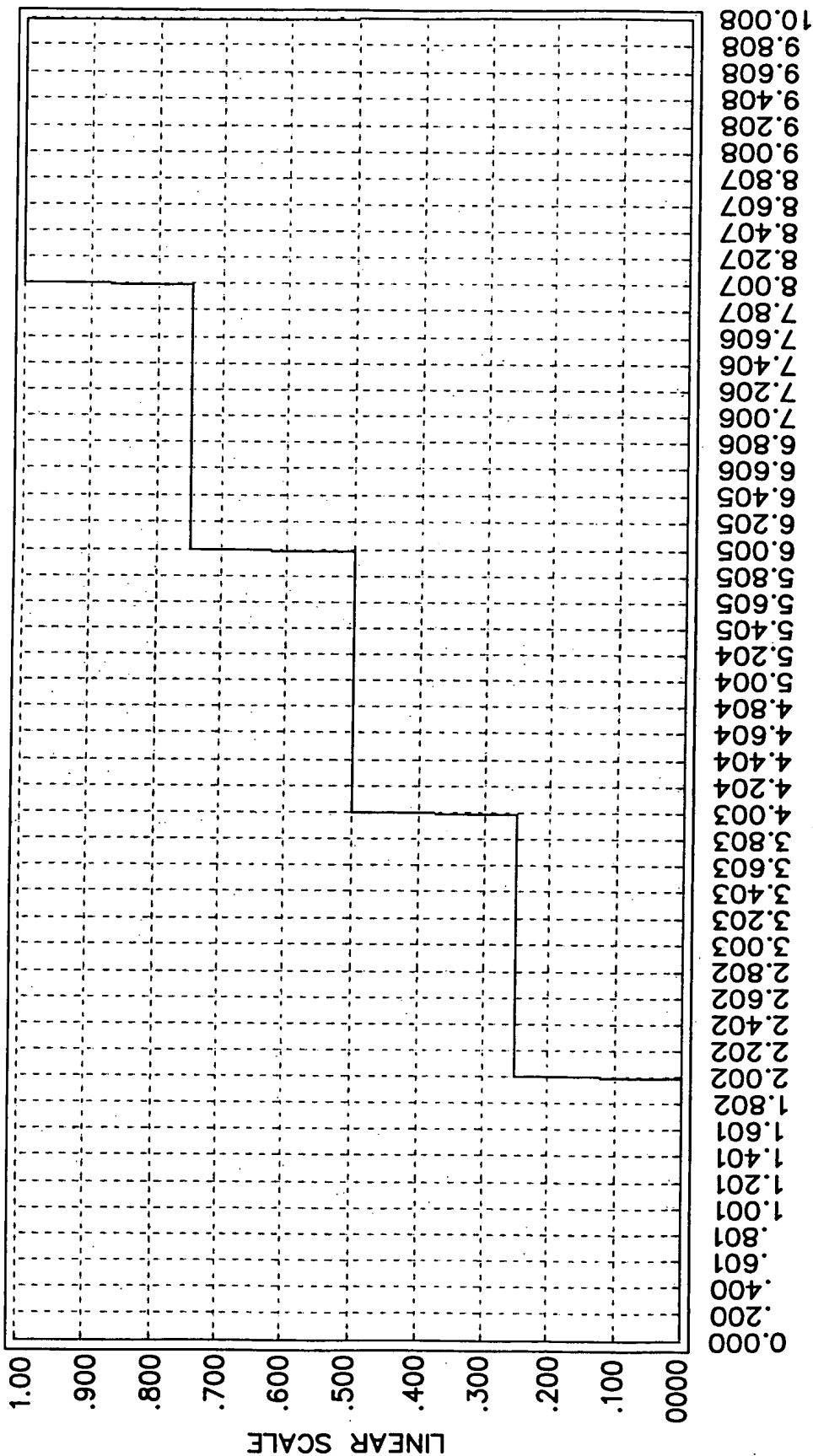
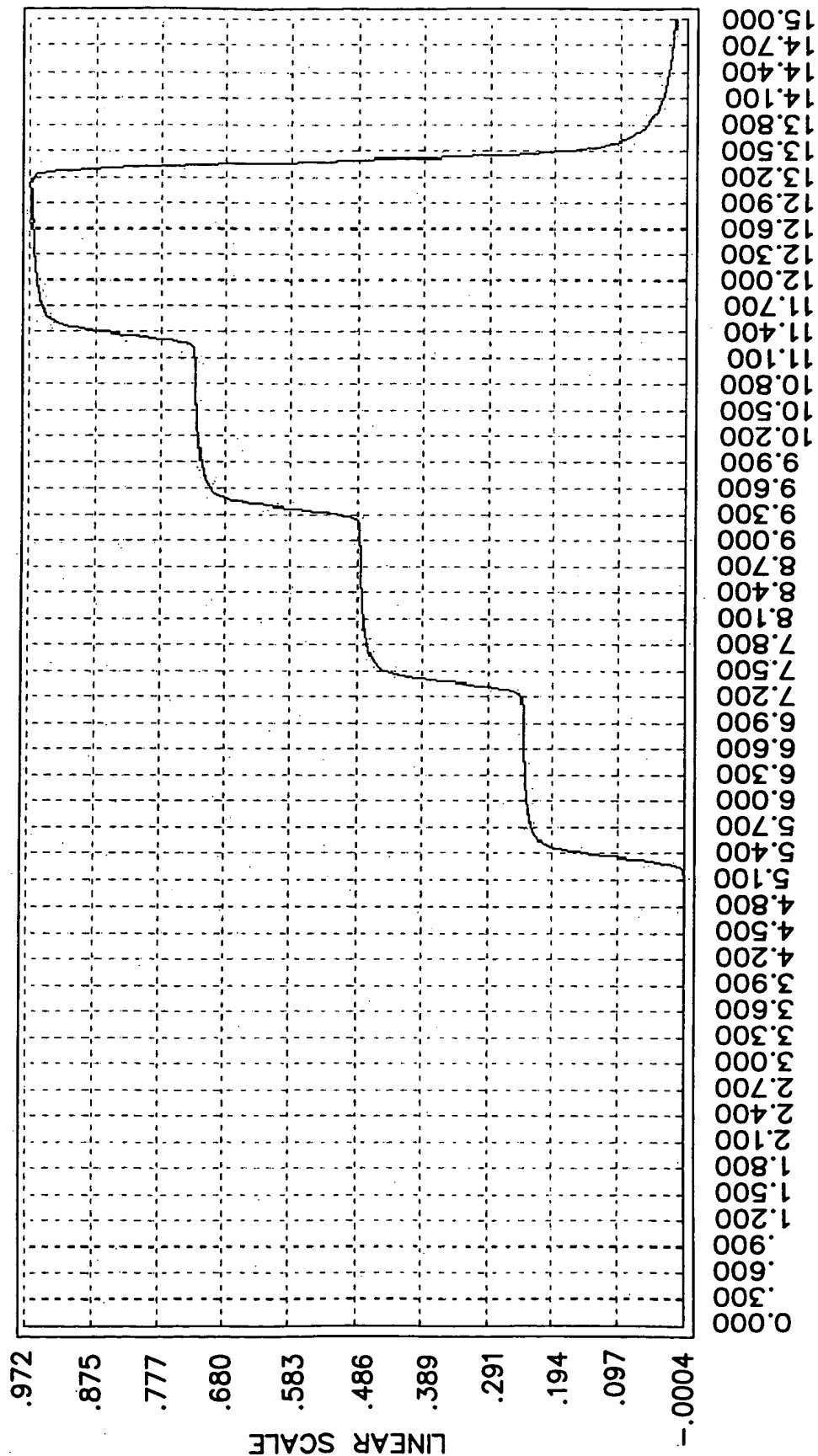


FIG 27



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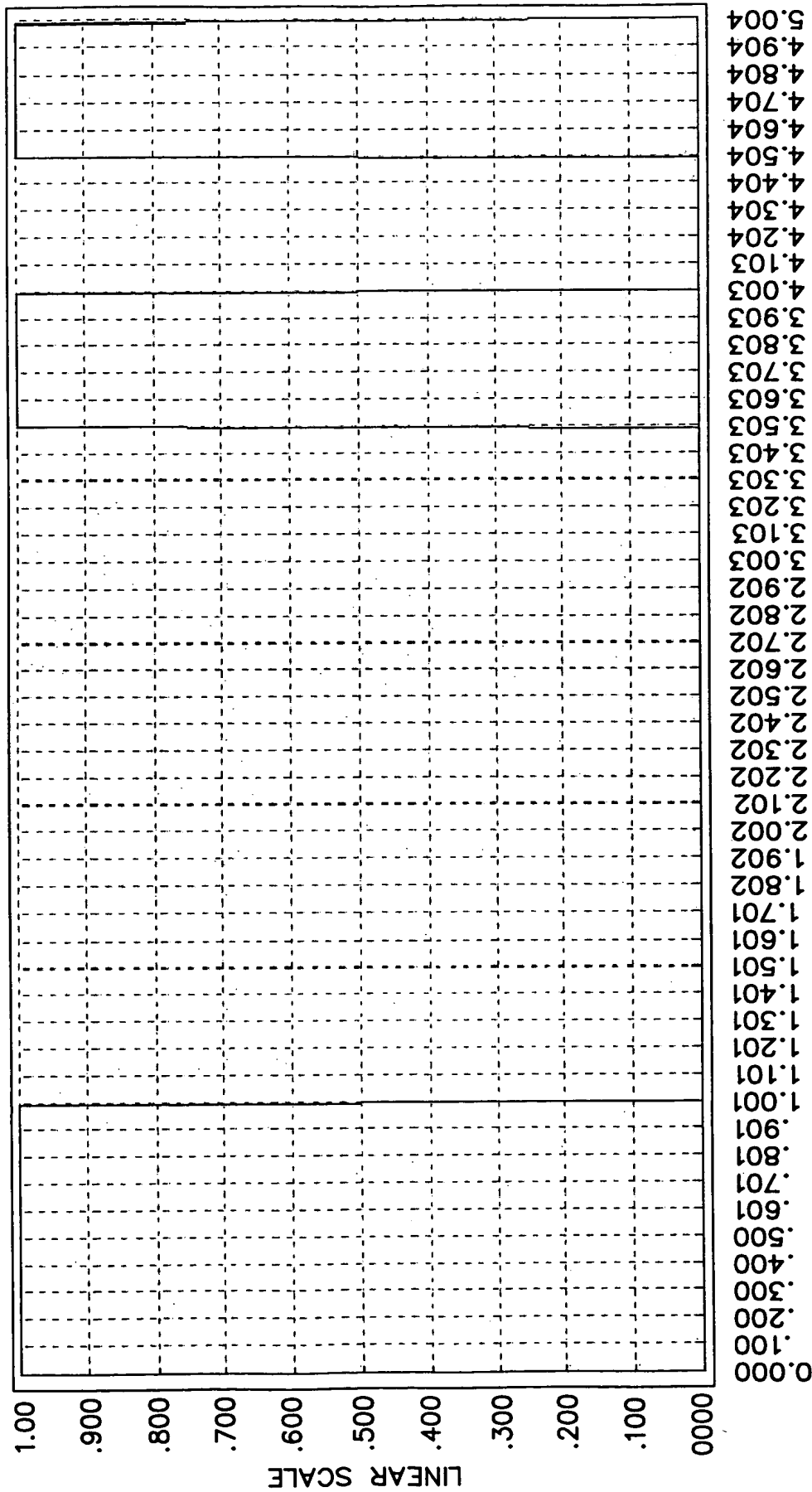


Sdd21 Response Function (CI) vs Time in Nsec. Resolution is 12.51 Psec

FIG 28



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Forcing Fn is K28.5 Pulses (1100000101) vs Time in Nsec. Resolution is 8.34 Psec

FIG. 29



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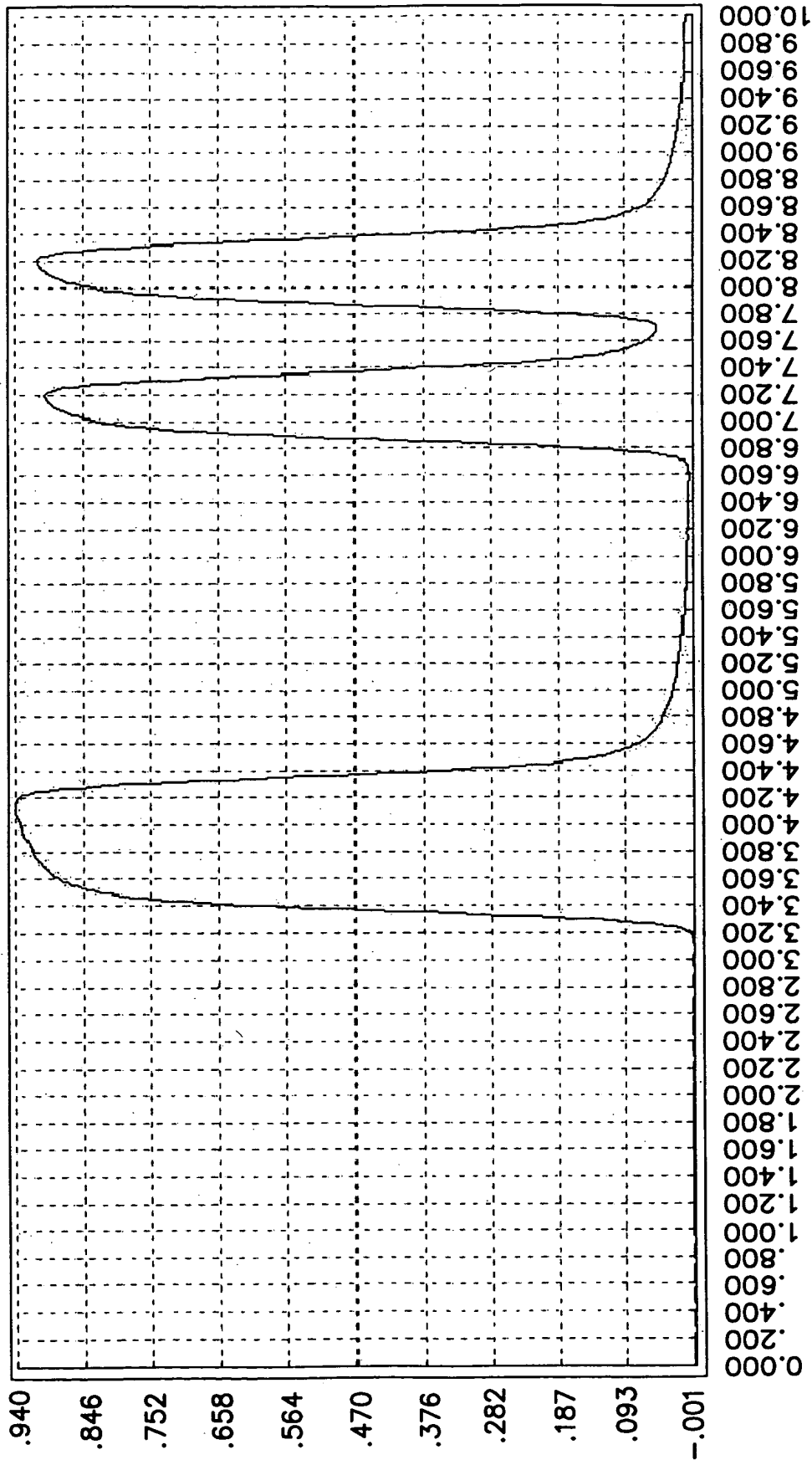
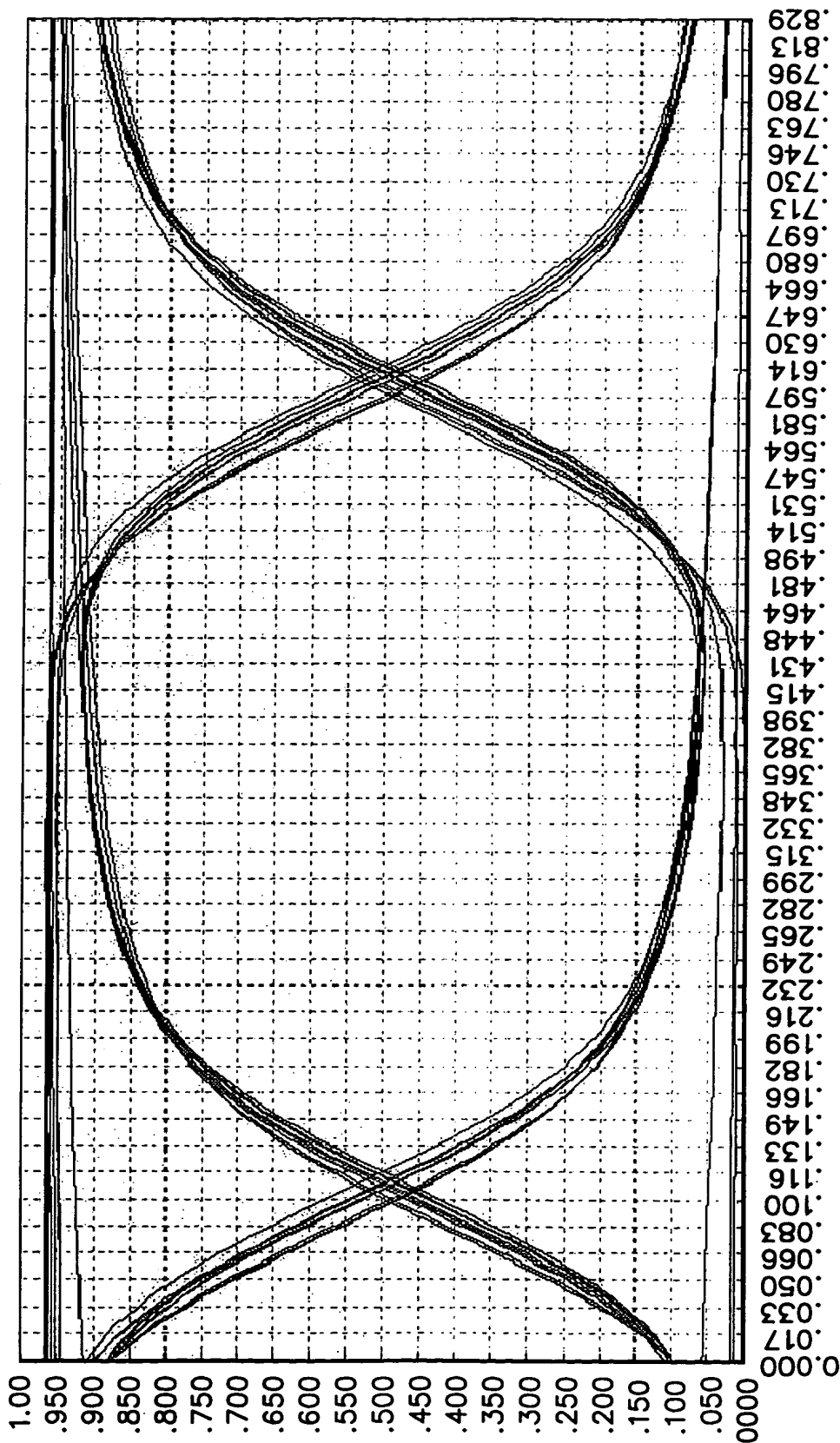


FIG 30



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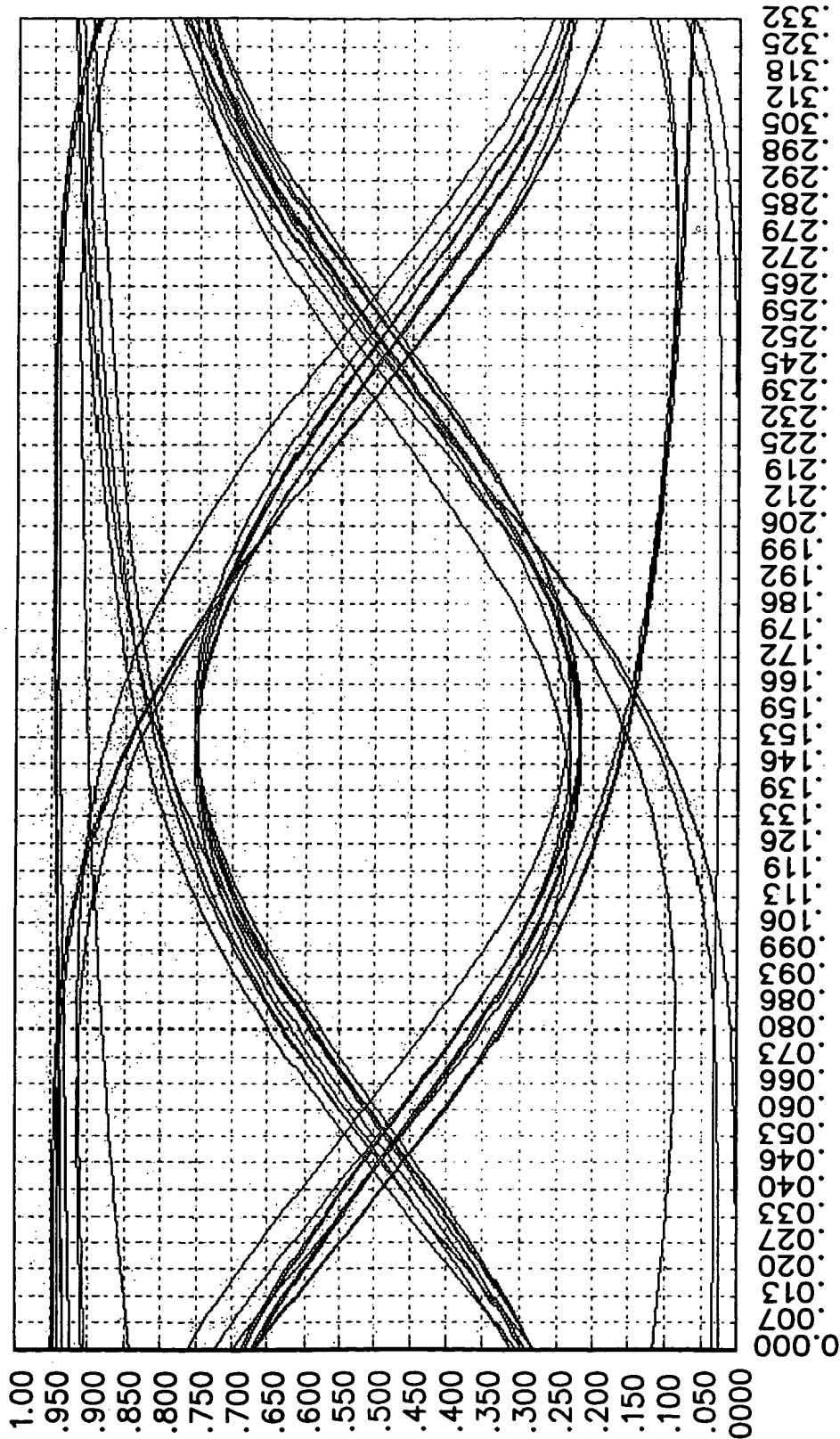


K28.5(1100000101) Digital Bit Pattern at 2Gb/s Data Rate

FIG. 31



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K28.5(1100000101) Digital Bit Pattern at 5 Gb/s Data Rate

FIG 32



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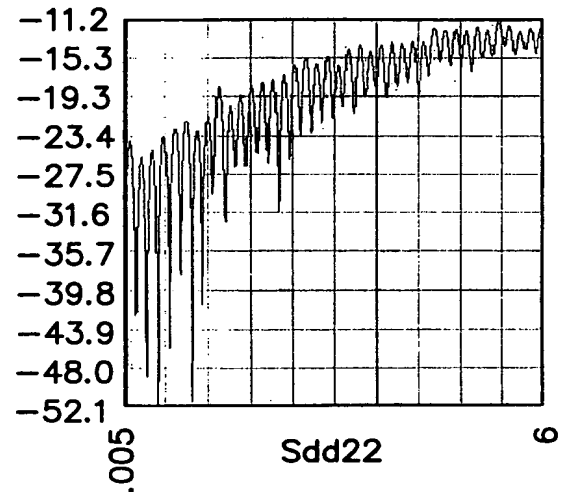
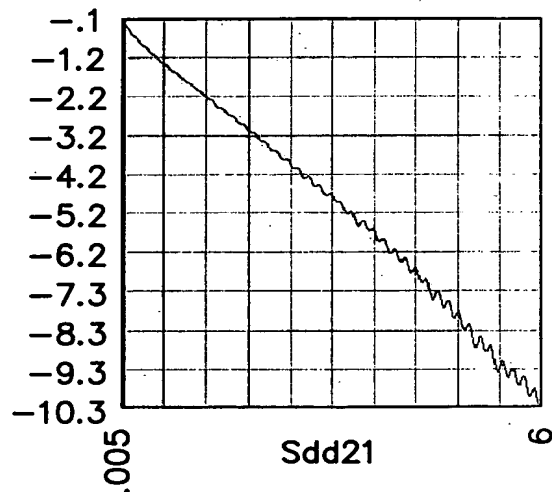
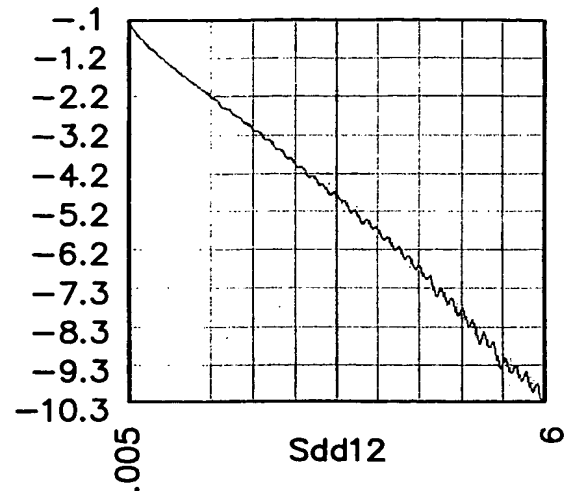
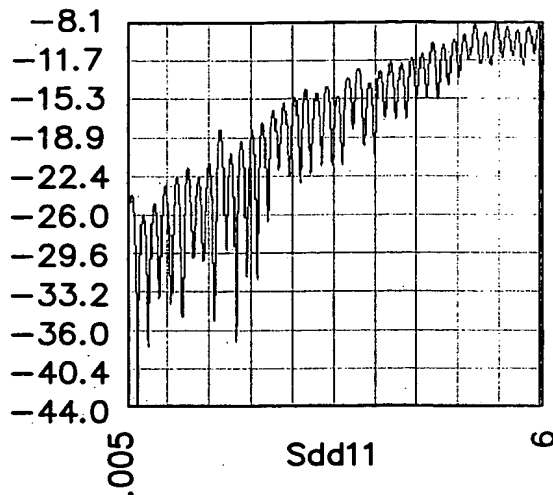


FIG. 33A



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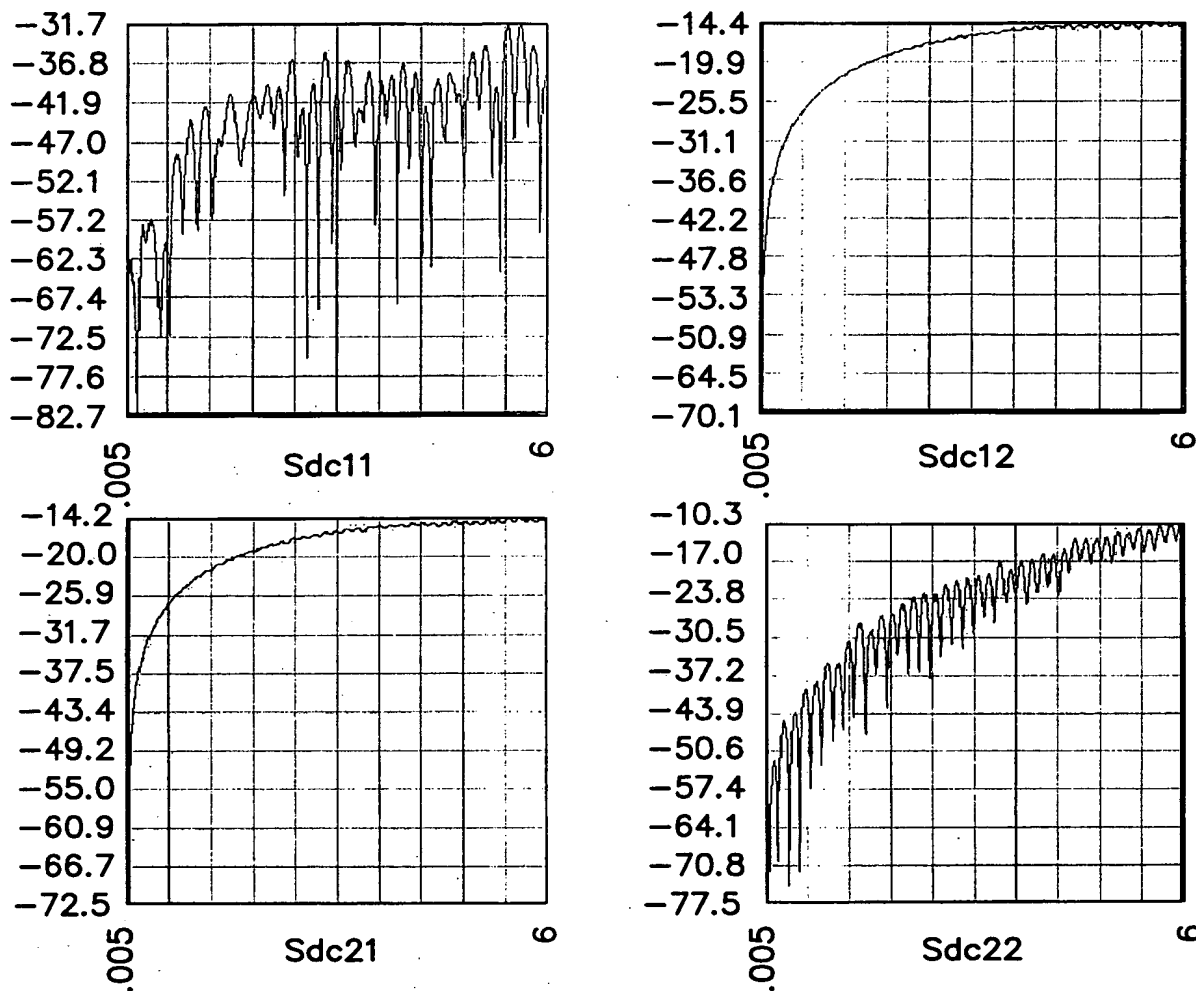


FIG. 33B



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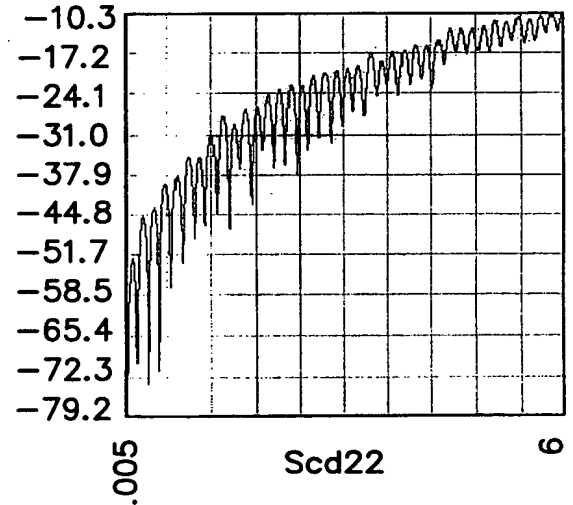
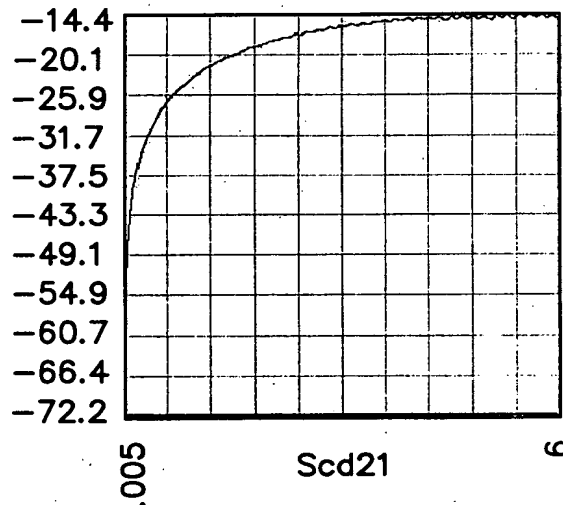
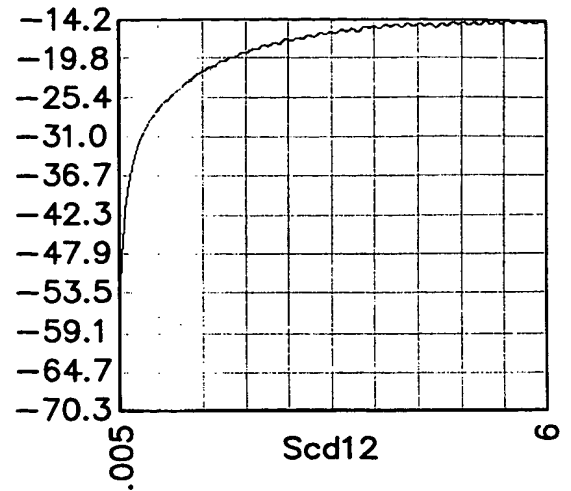
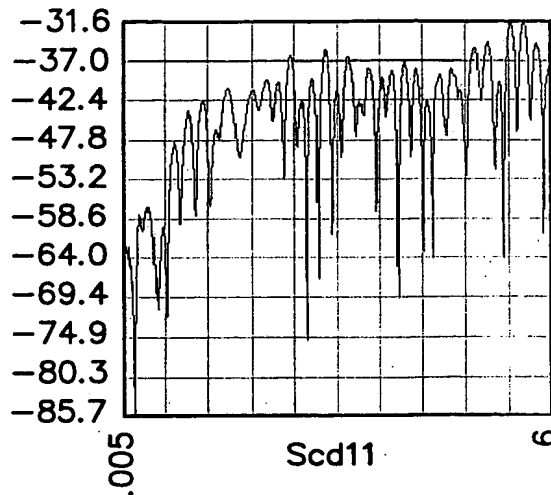
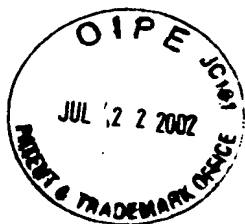


FIG. 33C



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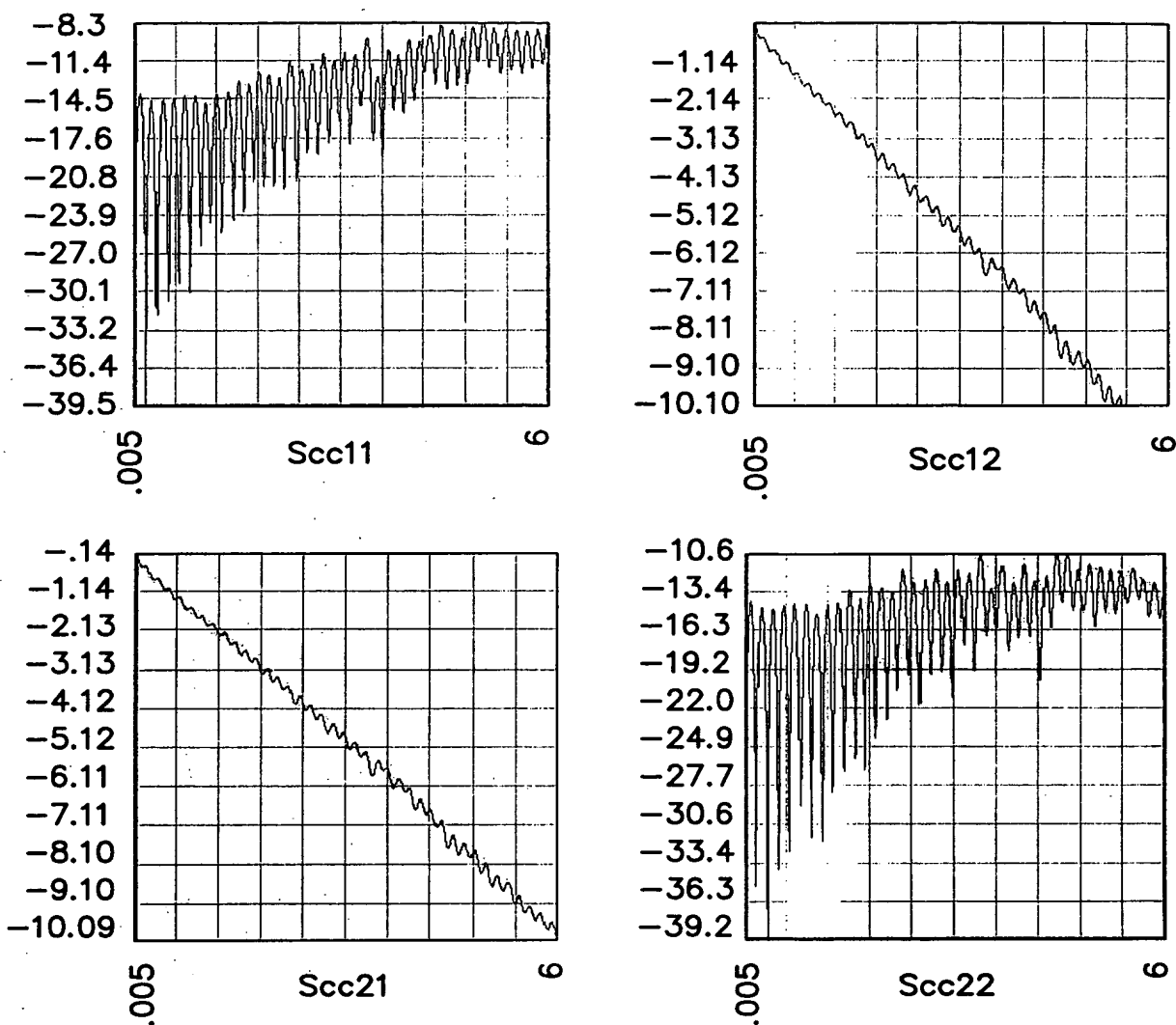


FIG. 33D

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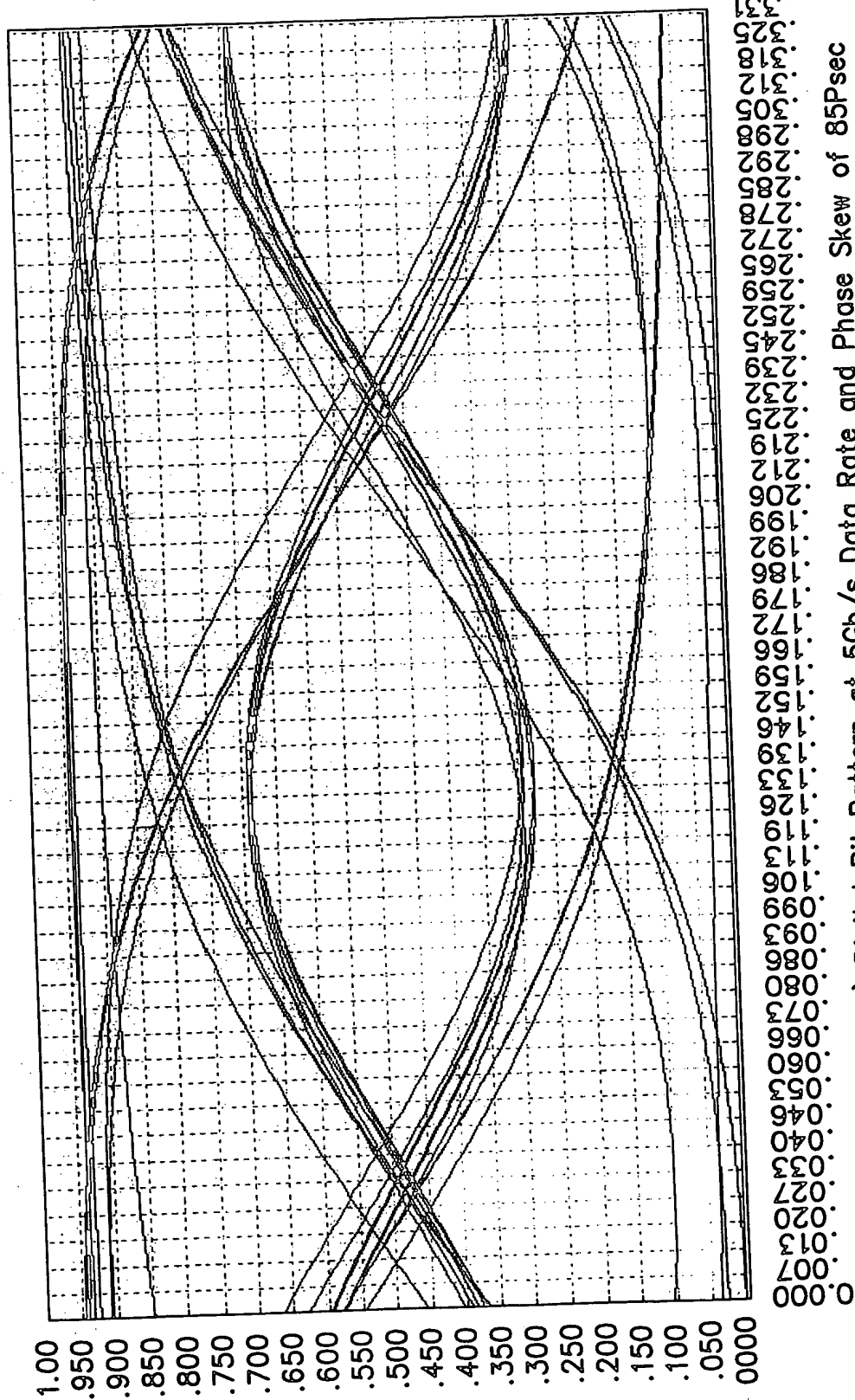


FIG. 34